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1.2 joda-time 2.9

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1.3 iptables 1.4.21-35.el7

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1.5 java-util 0.10.0

1.6 jetty-client 9.2.24.v20180105

1.7 libuv 0.10.28

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/* */

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#define UV_BSD_H
#define UV_PLATFORM_FS_EVENT_FIELDS uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS int rcount;
int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.8 iproute 3.10.0 74.el7

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That's all there is to it!
1.14 perl-compress-raw-zlib 2.061 4.el7

1.15 imageio 2.2.0
1.15.1 Available under license:

- Almar Klein
  Plugin system
  Most plugins so far

- Anthony Tanbakuchi
  Many improvements to the ffmpeg plugin

- Anselm Levskaya
  Fixed bug (causing segfaults) related to freeimage GIF writing

- Arash Rai
  Animated GIF looping

- Felix Kohlgrber
  FFMPEG improvements

- Ghis Vaillant
  Debian packaging

- jackwalker64
  Fixes for ffmpeg plugin

- Joel Nises
  Improvements and fixes for the FreeImage plugin

- Juan Nunez-Iglesias
  FEI plugin

- legionaryu
  Fixes for the GIF plugin

- Niklas Rosenstein
  Fixes for using Pillow plugin in threads

- Peter Lee
  Fixes to animated GIF

- Rob Reilink
AvBin plugin

- Steven Silvester
Tiffle plugin
GDal, simpleitk, and fits plugins

- Zach Pincus and others from the scikit-image team
Initial version of freeimage plugin
Initial code for findlib and lib downloading

- Zulko
Various contribution related to the ffmpeg plugin.

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1.16 ethtool 4.8 10.el7

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1.17 python-py 1.4.32 1.el7

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1.18 unicorn 5.2.0

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* Hongli Lai
* ... (help wanted)

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1.19 e2fsprogs 1.42.9 13.el7

1.19.1 Available under license:

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

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

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

- trivial database library - private includes
- 
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Theodore Ts'o <ttypso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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#
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#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

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

install-shlibs-strip: install-shlibs

install-strip: install

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

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

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Theodore Ts'o
23-June-2007

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

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

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1.31 itsdangerous 0.24

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1.32 getopt-long 0.1.0

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1.33 libnotify 0.7.7 1.el7

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1.50 libnetfilter-conntrack 1.0.6 1.el7_3

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  jar/com/amazonaws/services/s3/request/S3HandlerContextKeys.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/AbstractAmazonS3.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/transform/ServerSideEncryptionByDefaultStaxUnmarshaller.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/transform/QueueConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/AbortIncompleteMultipartUpload.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/Internal/S3RequesterChargedResult.java

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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SourceSelectionCriteria.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/DeleteMarkerReplicationStatus.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SetBucketEncryptionResult.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SseKmsEncryptedObjects.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/DeleteMarkerReplication.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/ServerSideEncryptionByDefault.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/EncryptionConfiguration.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SetBucketEncryptionRequest.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketEncryptionRequest.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/inventory/ServerSideEncryptionKMS.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SseKmsEncryptedObjectsStatus.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/inventory/InventoryEncryption.java

Found in path(s):
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/transform/SelectObjectContentEventUnmarshaller.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SelectObjectContentEventException.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/JSONType.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SelectObjectContentEventStream.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/model/SelectObjectContentEventVisitor.java
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  jar/com/amazonaws/services/s3/internal/SetObjectTaggingResponseHeaderHandler.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/internal/GetObjectTaggingResponseHeaderHandler.java

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 */

/**
 * Synchronous client for accessing Amazon S3.
 *
 * <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
 *
 * <h2>Introduction</h2>
 * <p>
This appendix summarizes the current crypto related meta information associated with an S3 object encrypted using SDK client-side encryption. In SDK's terminology, these meta information are classified as "user metadata". In general, the meta information is just a map of key/value pairs. Physically they are persisted either as metadata of the encrypted S3 object, or as a separate S3 object called an "instruction file" (which is just a JSON file in plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding, such as <code>"AES/CBC/PKCS5Padding"</code>, please refer to Oracle's "Java Cryptography Architecture Standard Algorithm Name Documentation" for more details.

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

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

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

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

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

For non-KMS client side encryption, this v1 crypto meta information is used to support the "Encryption Only" crypto mode (which involves the use of <code>AES/CBC/PKCS5Padding</code> for content encryption, and <code>AES/ECB</code> for encrypting the one-time randomly generated data key). For KMS client-side encryption, the v2 crypto meta information is used.

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;b&gt;x-amz-key&lt;/b&gt;</td>
<td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek is randomly generated per S3 object, and is always an AES 256-bit key. The corresponding cipher is always &quot;AES/CBC/PKCS5Padding&quot;.</td>
</tr>
<tr>
<td>&lt;b&gt;x-amz-iv&lt;/b&gt;</td>
<td>Randomly generated IV (per S3 object), base64 encoded</td>
</tr>
</tbody>
</table>
* <tr>
  * <td><b>x-amz-matdesc</b></td>
  * <td>Customer provided material description in JSON (UTF8) format. Used to identify the client-side master key (ie used to encrypt/wrap the generated content encrypting key).</td>
  * </tr>

* <tr>
  * <td><b>x-amz-unencrypted-content-length</b></td>
  * <td>Unencrypted content length (optional but should be specified whenever possible).</td>
  * </tr>

* </table>*

* <h2>S3 v2 crypto meta information (currently supported by the Java SDK)</h2>*

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

* <p>*

* <table border=1>*

  * <tr aligned="left">
    * <th>key</th>
    * <th>description</th>
  * </tr>*

  * <tr>*
    * <td width="200"><b>x-amz-key-v2</b></td>
    * <td>CEK in key wrapped form. This is necessary so that the S3 encryption client that doesn't recognize the v2 format will not mistakenly decrypt S3 object encrypted in v2 format.</td>
  * </tr>*

  * <tr>*
    * <td><b>x-amz-iv</b></td>
    * <td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
  * </tr>*

  * <tr>*
    * <td><b>x-amz-matdesc</b></td>
    * <td>Customer provided material description in JSON format. (Same as v1). Used to identify the client-side master key.</td>
  * </tr>*

  * <ul>*
    * For KMS client side encryption, the KMS Customer Master Key ID is stored as part of the material description, <b>x-amz-matdesc</b>, under the key-name <code>"kms_cmk_id"</code>.
  * </ul>*

* </td>
| **x-amz-unencrypted-content-length** | Unencrypted content length. (optional but should be specified whenever possible. Same as v1.) |
| **x-amz-wrap-alg** | Key wrapping algorithm used. |
| **x-amz-cek-alg** | Content encryption algorithm used. |
| **x-amz-tag-len** | Tag length (in bits) when AEAD is in use. |

**KMS Integration for client-side encryption**

- All client-side KMS protected S3 objects are stored in v2 crypto meta information format. However, the key wrapping algorithm, **x-amz-wrap-alg** is always set to "kms" if KMS is used.
- The KMS Customer Master Key ID is currently stored as part of the material description, **x-amz-matdesc**, under the key-name "kms_cmk_id".
Sample S3 crypto meta information for KMS client-side encryption

}``

```
$h4$Sample S3 crypto meta information for KMS client-side encryption$h4$

* <h5>CryptoMode: Encryption Only</h5>
   * x-amz-meta-x-amz-key-v2:
     ```
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMElG5rw3pEI+J8hKnAQEBAwB4CdhsKSUZ7els7o8KGpQtmHTUTUjBLJRua8N6CPiflAAAB+MhwGCSsqGS1b3DQEHBqBvMG0CAQAwAAYJKoZIhvcNAQcBMB4GCWC5SAFlAwQBLjARBAyD0rzN3KHViWixDVeCARCAOwhZ6xA8rob3Z0mNx3uKFieHkVylC/PKIChALvG1oVlnf86mcZJNpTTxTMMkKkDocVj3Zl1zGjZTufFsOw
    * x-amz-meta-x-amz-key-v2:
      ```
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMElG5rw3pEI+J8hKnAQEBAwB4CdhsKSUZ7els7o8KGpQtmHTUTUjBLJRua8N6CPiflAAAB+MhwGCSsqGS1b3DQEHBqBvMG0CAQAwAAYJKoZIhvcNAQcBMB4GCWC5SAFlAwQBLjARBAyD0rzN3KHViWixDVeCARCAOwhZ6xA8rob3Z0mNx3uKFieHkVylC/PKIChALvG1oVlnf86mcZJNpTTxTMMkKkDocVj3Zl1zGjZTufFsOw
      ```
   * CryptoMode: Authenticated Encryption
     ```
    x-amz-key-v2:
      ```
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMElG5rw3pEI+J8hKnAQEBAwB4CdhsKSUZ7els7o8KGpQtmHTUTUjBLJRua8N6CPiflAAAB+MhwGCSsqGS1b3DQEHBqBvMG0CAQAwAAYJKoZIhvcNAQcBMB4GCWC5SAFlAwQBLjARBAyFyVyyW4f6QmwePK1ECAARCAO1Vzom6Kx9DHylNMm/BEbbjle2vLA7IY7f9OkUoSrldgKxpNID9QaL/7928m1Dtd0bjHeffm89C
    * x-amz-meta-x-amz-key-v2:
      ```
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMElG5rw3pEI+J8hKnAQEBAwB4CdhsKSUZ7els7o8KGpQtmHTUTUjBLJRua8N6CPiflAAAB+MhwGCSsqGS1b3DQEHBqBvMG0CAQAwAAYJKoZIhvcNAQcBMB4GCWC5SAFlAwQBLjARBAYtFyVyyW4f6QmwePK1ECAARCAO1Vzom6Kx9DHylNMm/BEbbjle2vLA7IY7f9OkUoSrldgKxpNID9QaL/7928m1Dtd0bjHeffm89C
      ```
   * The following key is always included as part of the S3 metadata of the
     instruction file (which is just an S3 object). Since the SDK treats this key
     as "user metadata", the key name is always prefixed with <b>x-amz-meta-</b>
     when physically stored.
   * | key         | description                   |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-crypto-instr-file</td>
<td>The following key is always included as part of the S3 metadata of the instruction file (which is just an S3 object). Since the SDK treats this key as &quot;user metadata&quot;, the key name is always prefixed with <code>&lt;b&gt;x-amz-meta-&lt;/b&gt;</code> when physically stored.</td>
</tr>
<tr>
<td>x-amz-key-v2</td>
<td>The following key is always included as part of the S3 metadata of the instruction file (which is just an S3 object). Since the SDK treats this key as &quot;user metadata&quot;, the key name is always prefixed with <code>&lt;b&gt;x-amz-meta-&lt;/b&gt;</code> when physically stored.</td>
</tr>
<tr>
<td>x-amz-meta-x-amz-key-v2</td>
<td>The following key is always included as part of the S3 metadata of the instruction file (which is just an S3 object). Since the SDK treats this key as &quot;user metadata&quot;, the key name is always prefixed with <code>&lt;b&gt;x-amz-meta-&lt;/b&gt;</code> when physically stored.</td>
</tr>
</tbody>
</table>
the presence of this key is used to indicate this S3 object is an instruction file (of an associated client-side encrypted S3 object).</td>
</table>
*/

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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/package-info.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-jar/com/amazonaws/services/s3/waiters/HeadBucketFunction.java
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  jar/com/amazonaws/services/s3/model/S3Object.java
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  jar/com/amazonaws/services/s3/model/lifecycle/LifecyclePredicateVisitor.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/metrics/MetricsPrefixPredicate.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/ListBucketAnalyticsConfigurationsResult.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/inventory/InventoryS3BucketDestination.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/ListBucketAnalyticsConfigurationsRequest.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/transfer/internal/DownloadPartCallable.java
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*/
/**
 * Interface for providing encryption materials.
 * Implementations are free to use any strategy for providing encryption
 * materials, such as simply providing static material that doesn't change,
 * or more complicated implementations, such as integrating with existing
 * key management systems.
 */

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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/EncryptionMaterialsProvider.java
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  jar/com/amazonaws/services/s3/internal/crypto/S3CryptoModuleAEStrict.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/internal/crypto/S3ObjectWrapper.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/transfer/internal/S3ProgressListener.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/model/CryptoMode.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
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  jar/com/amazonaws/services/s3/internal/AbstractRepeatableCipherInputStream.java
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/AmazonS3Client.java
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/**
 * Gets the optional <code>versionIdMarker</code> parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin returning
 * results. Results are always ordered first lexicographically (i.e.
 * alphabetically) and then from most recent version to least recent
 * version.
 * <p>
 * A key marker must be specified when specifying a <code>versionIdMarker</code>.
 * Results begin immediately after the version with the specified key and
 * version ID.
 * </p>
 *
 * @return The optional <code>versionIdMarker</code> parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin
 * returning results.
 *
 * @see ListVersionsRequest#setVersionIdMarker(String)
 * @see ListVersionsRequest#withVersionIdMarker(String)
 */

Found in path(s):
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
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* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/internal/eventstreaming/Header.java
* /opt/cola/permits/1138242587_1614277590.57/0/aws-java-sdk-s3-1-11-414-sources-1-
  jar/com/amazonaws/services/s3/internal/eventstreaming/HeaderType.java
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  jar/com/amazonaws/services/s3/internal/eventstreaming/Utils.java

1.52 perl-digest-md5 2.52 3.el7

1.53 time 1.7 45.el7
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1.55 hadoop-annotations 3.3.0

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1.56 mongoid-autoinc 6.0.2
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1.57 iputils 20160308-10.el7

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1.58 busybox 1.31.1-r20

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1.65 musl 1.1.24-r9

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.jpg "Clone me," says Dolly sheepishly.

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2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Almeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and isignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12] Jean-François Boudreauault <Jean-François.Boudreauault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswEEP
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HP/UX modifications
30. [33] Dave Katz <dkatz@cisco.com> RS/6000 AIX port}
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33. [36] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
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discipline, authentication, precision kernel; clock drivers:
Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;
audio clock drivers: CHU, WWV/H, IRIG
37. [40]Wolfgang Moeller <moeller@gwdg.de> VMS port
38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
39. [42]Tom Moore <tmoore@fievel.daytonoh.ncl.com> i386 svr4 port
40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon
Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
maintenance
43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Sanchez <wsanchez@apple.com> added support for
NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
support
54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
driver
55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
TrueTime clock driver
56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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<ol>
Clock driver for JJY receivers

Leitch atomic clock controller

hopf Elektronik serial line and PCI-bus devices

Clock driver for JJY receivers

Mark Andrews

Clayton Kirkwood

port to WindowsNT 3.5

GPSVME fixes

syslog to file option

Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

Magnavox GPS clock driver

Piete Brooks

MSF clock driver, Trimble PARSE support

Nelson B Bolyard

IPv6 support

IPv6 support and testing

General maintenance, Windows port interpolation rewrite

Neocomlock4X clock driver

NeoClock4X clock driver

GOES clock driver

Mike Iglesias

DEC Alpha
Jim Jagielski
&ltp;jim@jagubox.gsfc.nasa.gov;&gt; A/UX port

Jeff Johnson
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Poul-Henning Kamp
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Frank Kardel
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&ltp;mills@udel.edu;&gt; Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG

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Rainer Pruy
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Dirce Richards
&ltp;dirce@zk3.dec.com;&gt; Digital UNIX V4.0 port

Wilfredo Sanchez
added support for NetInfo
SunOS streams modules
Saved a Lot of space on the stuff in the html/pic/ subdirectory
Unixware1 port
USNO clock driver
Datum PTS clock driver
Datnum autoconfigure makeover, various other bits (see the ChangeLog)
HP-UX port
IP multicast/anycast support
TRAK clock driver
TrueTime GPS driver, generic TrueTime clock driver
corrected and validated HTML documents according to the HTML DTD
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copyright = {
  date = "1970-2011";
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  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
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  text = <<- _EndOfDoc_
  see html/copyright.html

  _EndOfDoc_;
};
environrc;
no-misuse-usage;

version = `eval VERSION=`sed -e 's/.*,\[// -e \]\.\]*// < ../version.m4`
[ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;
version-value = "*/ Don't use -v as a shortcut for --version */

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

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

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

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1.82 core 1.4.1

1.82.1 Available under license:

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1.83 vim 7.4.160 5.el7

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*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
encouraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
[manual-copyright].

=== begin of license ===

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I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
including executables and/or source code, when the following four
conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in
      the distribution how to contact you. When the maintainer asks you
      (in any way) for a copy of the modified Vim you distributed, you
      must make your changes, including source code, available to the
      maintainer without fee. The maintainer reserves the right to
include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

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

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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

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

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

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

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

Kibaale Children's Centre*KKC* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.
The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

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

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

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

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

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

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation
Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

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

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

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

Sending money:*iccf-donations*

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

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

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.
Holland: Transfer to the account of "Stichting ICCF Holland” in Lisse. This will allow for tax deduction if you live in Holland. Postbank, nr. 4548774 IBAN: NL95 INGB 0004 5487 74

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

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


The e-mail address for sending the money to is: Bram@iccf-holland.org

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

Others: Transfer to one of these accounts if possible:

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

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland
This address is expected to be valid for a long time.

if version < 600
    " Remove any old syntax stuff hanging around
    syn clear
elseif exists("b:current_syntax")
    finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start="" skip=+""+ end=""+ contained

syn match psfObjTag "\[-+_A-Z0-9a-z\]+\[-+_A-Z0-9a-z\]+\)*" contained
syn match psfAttAbbrev "\(<\|fa|fr\|[aclqrv]\)<\|>=|=\|==\)>" contained
syn match psfObjTags "\(<\| \[-+_A-Z0-9a-z\]+\[-+_A-Z0-9a-z\]+\)*\(<\|\)\(<\| \[-+_A-Z0-9a-z\]+\[-+_A-Z0-9a-z\]+\)*" contained

syn match psfNumber "\<\d\>\" contained
syn match psfFloat "\<\d\>\" contained
syn match psfLongDate "\<\d\>\" contained

syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
These regions are defined in attempt to do syntax checking for some of the attributes.

- `psfAttTag`: matches tags like `tag`, `all_filesets`
- `psfAttSpec`: matches attributes like `ancestor`, `software_spec`
- `psfAttNumber`: matches numbers like `compressed_size`, `instance_id`
- `psfAttTime`: matches times like `create_time`, `mtime`
- `psfAttFloat`: matches floats like `data_model_revision`, `layout_version`
- `psfAttLongDate`: matches dates like `install_date`
- `psfAttState`: matches states like `state`
- `psfAttPState`: matches patch states like `patch_state`
- `psfAttBoolean`: matches booleans like `is_kernel`, `is_locatable`

Define the default highlighting.

* For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
  let did_psf_syntax_inits = 1
  command -nargs=+ HiLink hi link <args>
else
  command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment
delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
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1.85 linux-kernel 3.10.0 957.el7

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

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

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* M. Welsh, 6 July 1996

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
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%prep
%setup -q -n tftp-hpa-%{version}

%build

%install
rm -rf %{_install_p}
mkdir -p %{_bindir}
mkdir -p %{_mandir}/man{1,8}
mkdir -p %{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \ 
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ 
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16
* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051).

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.
* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftp.spec

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

License: BSD

Found in path(s):
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`*/ # nroff -*- --------------------------------------------------------- */

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`*--------------------------------------------------------------- */

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`*/

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-tar-gz/tftp-hpa-0.49/tftp.spec.in

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-
  0.49/common/tftpsubs.h
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h

1.90 libwebsockets 4.2

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1.92 dhcp 4.2.5-83.el7.centos.1

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<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text,'\n'))"/>
    <xsl:text>\n</xsl:text>
    <xsl:variable name="rest" select="substring-after($text,'\n')"/>
    <xsl:if test="translate($rest,'\n\t','')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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  </xsl:variable>
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clarify this fact.

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.93 unzip 6.0 5.el6

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* Basic encoding and decoding of Macintosh files to the
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.94 mime-pull 1.9.11

1.95 bouncy-castle 1.60
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1.96 etc 1.1.0

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1.97 byte-buddy-agent 1.5.5

1.98 rack-timeout 0.4.2

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c5f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!--
-
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-->

<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
</xsl:text>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6ff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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1.126 okio 1.15.0

1.127 libcap 2.16 5.5.el6

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1.128 orc 0.4.26 1.el7

1.129 mgo 2.0.0-20180705113604-9856a29383ce
1.129.1 Available under license :
    mgo - MongoDB driver for Go

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1.130 poppler-data 0.4.6 3.el7

1.131 hadoop-mapreduce-client-jobclient

2.7.4

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
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For:
- hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js
- hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js.gz
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```
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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the Library and of the other library facilities is otherwise
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990  
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the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

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

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

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

enum RCH_status
{

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

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

/*/ SAME_INODE check failed */
RC_inode_changed,

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

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

extern void
chopt_init (struct Chown_option *chopt)
{
  chopt->verbosity = V_off;
  chopt->root_dev_ino = NULL;
  chopt->affect_symlink_referent = true;
  chopt->recurse = false;
  chopt->force_silent = false;
  chopt->user_name = NULL;
  chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
  /* Deliberately do not free chopt->user_name or ->group_name.
     They're not always allocated. */
}

/*/ Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
   and return it. If there's no corresponding group name, use the decimal
   representation of the ID. */

extern char *
gid_to_name (gid_t gid)
{
  char buf[INT_BUFSIZE_BOUND (intmax_t)];
  struct group *grp = getgrgid (gid);
  return xstrdup (grp ? grp->gr_name
                     : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
                     : umaxtostr (gid, buf));
}
/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
and return it. If there's no corresponding user name, use the decimal
representation of the ID. */
extern char *
uid_to_name (uid_t uid)
{
char buf[INT_BUFSIZE_BOUND (intmax_t)];
struct passwd *pwd = getpwuid (uid);
return xstrdup (pwd ? pwd->pw_name
: TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
: umaxtostr (uid, buf));
}
/* Allocate a string representing USER and GROUP. */
static char *
user_group_str (char const *user, char const *group)
{
char *spec = NULL;
if (user)
{
if (group)
{
spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
}
else
{
spec = xstrdup (user);
}
}
else if (group)
{
spec = xstrdup (group);
}
return spec;
}
/* Tell the user how/if the user and group of FILE have been changed.
If USER is NULL, give the group-oriented messages.
CHANGED describes what (if anything) has happened. */
static void

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describe_change (const char *file, enum Change_status changed,
        char const *old_user, char const *old_group,
        char const *user, char const *group)
{
        const char *fmt;
        char *old_spec;
        char *spec;

        if (changed == CH_NOT_APPLIED)
                {
                        printf (_("neither symbolic link %s nor referent has been changed\n"), quote (file));
                        return;
                }

        spec = user_group_str (user, group);
        old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

        switch (changed)
        {
                case CH_SUCCEEDED:
                        fmt = (user ? _("changed ownership of %s from %s to %s\n")
                                : group ? _("changed group of %s from %s to %s\n")
                                : _("no change to ownership of %s\n"));
                        break;
                case CH_FAILED:
                        if (old_spec)
                                {
                                        fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                                                : group ? _("failed to change group of %s from %s to %s\n")
                                                : _("failed to change ownership of %s\n"));
                                }
                        else
                                {
                                        fmt = (user ? _("failed to change ownership of %s to %s\n")
                                                : group ? _("failed to change group of %s to %s\n")
                                                : _("failed to change ownership of %s\n"));
                                        free (old_spec);
                                        old_spec = spec;
                                        spec = NULL;
                                }
                        break;
                case CH_NO_CHANGE_REQUESTED:
                        fmt = (user ? _("ownership of %s retained as %s\n")
                                : group ? _("group of %s retained as %s\n")
                                : _("ownership of %s retained\n"));
                        break;
                default:
abort ();
}

printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call lstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
    struct stat const *orig_st,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;

    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
        return RC_do_ordinary_chown;

    if (! S_ISREG (orig_st->st_mode))
    {
        if (S_ISDIR (orig_st->st_mode))
            open_flags |= O_DIRECTORY;
        else
            return RC_do_ordinary_chown;
    }
fd = openat(cwd_fd, file, O_RDONLY | open_flags);
if (! (0 <= fd
    || (errno == EACCES && S_ISREG (orig_st->st_mode)
        && 0 <= (fd = openat(cwd_fd, file, O_WRONLY | open_flags)))
    )
    return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

if (fstat (fd, &st) != 0)
    status = RC_error;
else if (! SAME_INODE (*orig_st, st))
    status = RC_inode_changed;
else if (((required_uid == (uid_t) -1 || required_uid == st.st_uid) &&
        (required_gid == (gid_t) -1 || required_gid == st.st_gid))
    {
        if (fchown (fd, uid, gid) == 0)
            {
                status = (close (fd) == 0
                    ? RC_ok : RC_error);
                return status;
            }
        else
            {
                status = RC_error;
            }
    }

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;

/* Change the owner and/or group of the file specified by FTS and ENT
to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool change_file_owner (FTS *fts, FTSENT *ent,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
    {
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
}
bool ok = true;
bool do_chown;
bool symlink_changed = true;

switch (ent->fts_info)
{
  case FTS_D:
    if (chopt->recurse)
    {
      if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
      {
        /* This happens e.g., with "chown -R --preserve-root 0 /
           and with "chown -RH --preserve-root 0 symlink-to-root". */
        ROOT_DEV_INO_WARN (file_full_name);
        /* Tell fts not to traverse into this hierarchy. */
        fts_set (fts, ent, FTS_SKIP);
        /* Ensure that we do not process "/" on the second visit. */
        ignore_value (fts_read (fts));
        return false;
      }
      return true;
    }
    break;
  case FTS_DP:
    if (! chopt->recurse)
      return true;
    break;

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

case FTS_DNR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory %s"),
                quote (file_full_name));
    ok = false;
    break;

case FTS_DC: /* directory that causes cycles */
    if (cycle_warning_required (fts, ent))
    {
        emit_cycle_warning (file_full_name);
        return false;
    }
    break;

default:
    break;
}

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

    /* If this is a symlink and we're dereferencing them,
        stat it to get info on the referent. */
    if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
    {
        if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
if (! chopt->force_silent)
    error (0, errno, "cannot dereference %s",
            quote (file_full_name));
    ok = false;
}

file_stats = &stat_buf;
}

do_chown = (ok
    && (required_uid == (uid_t) -1
        || required_uid == file_stats->st_uid)
    && (required_gid == (gid_t) -1
        || required_gid == file_stats->st_gid));
}

/* This happens when chown -LR --preserve-root encounters a symlink-to-/.
 */
if (ok
    && FTSENT_IS_DIRECTORY (ent)
    && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if ( ! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);
    /* Ignore any error due to lack of support; POSIX requires this behavior for top-level symbolic links with -h, and implies that it's required for all symbolic links. */
    if (!ok && errno == EOPNOTSUPP)
    {
        ok = true;
        symlink_changed = false;
    }
    }
    else
    {
    /* If possible, avoid a race condition with --from=O:G and without the (-h) --no-dereference option. If fts's stat call determined that the uid/gid of FILE matched the --from=O:G-selected owner and group IDs, blindly using chown(2) here could lead chown(1) or chgrp(1) mistakenly to dereference a *symlink*
to an arbitrary file that an attacker had moved into the
place of FILE during the window between the stat and
chown(2) calls. If FILE is a regular file or a directory
that can be opened, this race condition can be avoided safely. */

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

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

    case RC_error:
        ok = false;
        break;

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

    default:
        abort ()
;
}

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

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

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

if (changed || chopt->verbosity == V_high)
{
    enum Change_status ch_status =
    (!ok ? CH_FAILED
     : !symlink_changed ? CH_NOT_APPLIED
     : !changed ? CH_NO_CHANGE_REQUESTED
     : CH_SUCCEEDED);
    char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
    char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
    describe_change (file_full_name, ch_status,
                     old_usr, old_grp,
                     chopt->user_name, chopt->group_name);
    free (old_usr);
    free (old_grp);
}

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

return ok;

/* Change the owner and/or group of the specified FILES.
   BIT_FLAGS specifies how to treat each symlink-to-directory
   that is encountered during a recursive traversal.
   CHOPT specifies additional options.
   If UID is not -1, then change the owner id of each file to UID.
   If GID is not -1, then change the group id of each file to GID.
   If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
   files with user ID and group ID that match the non-( -1) value(s).
   Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
              uid_t uid, gid_t gid,
              uid_t required_uid, gid_t required_gid,
              struct Chown_option const *chopt)
{
    bool ok = true;

/* Use lstat and stat only if they're needed. */
int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1

FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

while (1) {
    FTSENT *ent;

    ent = fts_read (fts);
    if (ent == NULL) {
        if (errno != 0) {
            /* FIXME: try to give a better message */
            if (! chopt->force_silent)
                error (0, errno, _("fts_read failed"));
            ok = false;
        }
        break;
    }

    ok &= change_file_owner (fts, ent, uid, gid, required_uid, required_gid, chopt);
}

if (fts_close (fts) != 0) {
    error (0, errno, _("fts_close failed"));
    ok = false;
}

return ok;

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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Gocheck - A rich testing framework for Go

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

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@subheading END OF TERMS AND CONDITIONS

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

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

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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1.147 libdaemon 0.14
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.152 play-json 2.6.9

1.153 gstreamer 1.14.0

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

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

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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That's all there is to it!
1.154 untangle 1.1.1

1.154.1 Available under license:

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* /opt/cola/permits/1156166367_1619138812.43/0/untangle-1-1-1-tar-gz/untangle-1.1.1/setup.py

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Metadata-Version: 1.1
Name: untangle
Version: 1.1.1
Summary: Convert XML documents into Python objects
Home-page: http://github.com/stchris/untangle
Author: Christian Stefanescu
Author-email: chris@0chris.com
License: MIT
Description:
   untangle
   --------
   .. image:: https://secure.travis-ci.org/stchris/untangle.png?branch=master

   untangle parses an XML document and returns a Python object which makes it easy to access the data you want.

   Example:

   ::

      import untangle
      obj = untangle.parse('<root><child name="child1"/></root>')
      assert obj.root.child['name'] == u'child1'

   See http://0chris.com/untangle and
   http://readthedocs.org/docs/untangle/en/latest/

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
1.155 v8 6.8.275.32

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

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentAcceptingOptionSpec.java
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* /opt/ cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/BuiltinHelpFormatter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecTokenizer.java
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/HelpFormatter.java

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jar/joptsimple/util/EnumConverter.java

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1.169 libcgroup 0.41 20.el7
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1.170 babel 0.9.6 8.el7

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1.171 dwz 0.11 3.el7

1.172 selinux 3.0

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

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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If such an object file uses only numerical parameters, data
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1.175 man-db 1.6f-39.el6

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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1.176 unf-ext 0.0.7.7-1.ph4
1.176.1 Available under license:

The MIT License

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1.177 readline 6.2 10.el7

1.177.1 Available under license:

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Version 2, June 1991

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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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This is free software, and you are welcome to redistribute it
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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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A. HISTORY OF THE SOFTWARE
===============================================

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

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

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

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

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1.182 hadoop-yarn-client 2.2.0
1.182.1 Available under license :

/**
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package org.apache.hadoop.yarn.client.api.impl;

import java.io.IOException;
import java.net.InetSocketAddress;
import java.util.ArrayList;
import java.util.EnumSet;
import java.util.List;
import java.util.Set;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationClientProtocol;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationReportRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationRequest;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.ApplicationReport;
import org.apache.hadoop.yarn.api.records.ApplicationSubmissionContext;
import org.apache.hadoop.yarn.api.records.NodeState;
import org.apache.hadoop.yarn.api.records.QueueInfo;
import org.apache.hadoop.yarn.api.records.QueueUserACLInfo;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.YarnApplicationState;
import org.apache.hadoop.yarn.api.records.YarnClusterMetrics;
import org.apache.hadoop.yarn.api.records.YarnClientRMProxy;
import org.apache.hadoop.yarn.api.records.YarnClient;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.security.AMRMTokenIdentifier;
import org.apache.hadoop.yarn.util.ConverterUtils;
import org.apache.hadoop.yarn.util.Records;
import com.google.common.annotations.VisibleForTesting;

@Private
@Unstable
public class YarnClientImpl extends YarnClient {

private static final Log LOG = LogFactory.getLog(YarnClientImpl.class);

protected ApplicationClientProtocol rmClient;
protected InetSocketAddress rmAddress;
protected long statePollIntervalMillis;

private static final String ROOT = "root";

public YarnClientImpl() {
    super(YarnClientImpl.class.getName());
}

private static InetSocketAddress getRmAddress(Configuration conf) {
    return conf.getSocketAddr(YarnConfiguration.RM_ADDRESS,
                               YarnConfiguration.DEFAULT_RM_ADDRESS, YarnConfiguration.DEFAULT_RM_PORT);
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    this.rmAddress = getRmAddress(conf);
    statePollIntervalMillis = conf.getLong(
        YarnConfiguration.YARN_CLIENT_APP_SUBMISSION_POLL_INTERVAL_MS,
YarnConfiguration.DEFAULT_YARN_CLIENT_APP_SUBMISSION_POLL_INTERVAL_MS);
super.serviceInit(conf);
}

@Override
protected void serviceStart() throws Exception {
try {
rmClient = ClientRMProxy.createRMProxy(getConfig(),
    ApplicationClientProtocol.class);
} catch (IOException e) {
    throw new YarnRuntimeException(e);
}
super.serviceStart();
}

@Override
protected void serviceStop() throws Exception {
if (this.rmClient != null) {
    RPC.stopProxy(this.rmClient);
}
super.serviceStop();
}

private GetNewApplicationResponse getNewApplication()
    throws YarnException, IOException {
GetNewApplicationRequest request =
    Records.newRecord(GetNewApplicationRequest.class);
return rmClient.getNewApplication(request);
}

@Override
public YarnClientApplication createApplication()
    throws YarnException, IOException {
ApplicationSubmissionContext context = Records.newRecord
    (ApplicationSubmissionContext.class);
GetNewApplicationResponse newApp = getNewApplication();
ApplicationId appId = newApp.getApplicationId();
context.setApplicationId(appId);
return new YarnClientApplication(newApp, context);
}

@Override
public ApplicationId submitApplication(ApplicationSubmissionContext appContext)
    throws YarnException, IOException {
ApplicationId applicationId = appContext.getApplicationId();
appContext.setApplicationId(applicationId);
SubmitApplicationRequest request =
Records.newRecord(SubmitApplicationRequest.class);
request.setApplicationSubmissionContext(appContext);
rmClient.submitApplication(request);

int pollCount = 0;
while (true) {
    YarnApplicationState state =
        getApplicationReport(applicationId).getYarnApplicationState();
    if (!state.equals(YarnApplicationState.NEW) &&
        !state.equals(YarnApplicationState.NEW_SAVING)) {
        break;
    }
    // Notify the client through the log every 10 poll, in case the client
    // is blocked here too long.
    if (++pollCount % 10 == 0) {
        LOG.info("Application submission is not finished, " +
            "submitted application " + applicationId +
            " is still in " + state);
    }
    try {
        Thread.sleep(statePollIntervalMillis);
    } catch (InterruptedException ie) {
    }
}

LOG.info("Submitted application " + applicationId + " to ResourceManager" + " at " + rmAddress);
return applicationId;

@Override
public void killApplication(ApplicationId applicationId)
    throws YarnException, IOException {
    LOG.info("Killing application " + applicationId);
    KillApplicationRequest request =
        Records.newRecord(KillApplicationRequest.class);
    request.setApplicationId(applicationId);
    rmClient.forceKillApplication(request);
}

@Override
public ApplicationReport getApplicationReport(ApplicationId appId)
    throws YarnException, IOException {
    GetApplicationReportRequest request =
        Records.newRecord(GetApplicationReportRequest.class);
    request.setApplicationId(appId);
    GetApplicationReportResponse response =
public org.apache.hadoop.security.token.Token<AMRMTokenIdentifier>
    getAMRMToken(ApplicationId appId) throws YarnException, IOException {
    Token token = getApplicationReport(appId).getAMRMToken();
    org.apache.hadoop.security.token.Token<AMRMTokenIdentifier> amrmToken = null;
    if (token != null) {
        amrmToken = ConverterUtils.convertFromYarn(token, null);
    }
    return amrmToken;
}

@Override
public List<ApplicationReport> getApplications() throws YarnException, IOException {
    return getApplications(null, null);
}

@Override
public List<ApplicationReport> getApplications(Set<String> applicationTypes)
    throws YarnException, IOException {
    return getApplications(applicationTypes, null);
}

@Override
public List<ApplicationReport> getApplications(EnumSet<YarnApplicationState> applicationStates)
    throws YarnException, IOException {
    return getApplications(null, applicationStates);
}

@Override
public List<ApplicationReport> getApplications(Set<String> applicationTypes,
    EnumSet<YarnApplicationState> applicationStates) throws YarnException, IOException {
    GetApplicationsRequest request =
        GetApplicationsRequest.newInstance(applicationTypes, applicationStates);
    GetApplicationsResponse response = rmClient.getApplications(request);
    return response.getApplicationList();
}

@Override
public YarnClusterMetrics getYarnClusterMetrics() throws YarnException, IOException {
    // Code snippet...
}
GetClusterMetricsRequest request =
    Records.newRecord(GetClusterMetricsRequest.class);
GetClusterMetricsResponse response = rmClient.getClusterMetrics(request);
return response.getClusterMetrics();
}

@Override
public List<NodeReport> getNodeReports(NodeState... states) throws YarnException,
    IOException {
    EnumSet<NodeState> statesSet = (states.length == 0) ?
        EnumSet.allOf(NodeState.class) : EnumSet.noneOf(NodeState.class);
    for (NodeState state : states) {
        statesSet.add(state);
    }
    GetClusterNodesRequest request = GetClusterNodesRequest
        .newInstance(statesSet);
    GetClusterNodesResponse response = rmClient.getClusterNodes(request);
    return response.getNodeReports();
}

@Override
public Token getRMDelegationToken(Text renewer)
    throws YarnException, IOException {
    /* get the token from RM */
    GetDelegationTokenRequest rmDTRequest =
        Records.newRecord(GetDelegationTokenRequest.class);
    rmDTRequest.setRenewer(renewer.toString());
    GetDelegationTokenResponse response =
        rmClient.getDelegationToken(rmDTRequest);
    return response.getRMDelegationToken();
}

private GetQueueInfoRequest
    getQueueInfoRequest(String queueName, boolean includeApplications,
        boolean includeChildQueues, boolean recursive) {
    GetQueueInfoRequest request = Records.newRecord(GetQueueInfoRequest.class);
    request.setQueueName(queueName);
    request.setIncludeApplications(includeApplications);
    request.setIncludeChildQueues(includeChildQueues);
    request.setRecursive(recursive);
    return request;
}

@Override
public QueueInfo getQueueInfo(String queueName) throws YarnException,
    IOException {
    GetQueueInfoRequest request =

getQueueInfoRequest(queueName, true, false, false);
Records.newRecord(GetQueueInfoRequest.class);
return rmClient.getQueueInfo(request).getQueueInfo();
}

@Override
public List<QueueUserACLInfo> getQueueAclsInfo() throws YarnException, IOException {
GetQueueUserAclsInfoRequest request =
Records.newRecord(GetQueueUserAclsInfoRequest.class);
return rmClient.getQueueUserAcls(request).getUserAclsInfoList();
}

@Override
public List<QueueInfo> getAllQueues() throws YarnException, IOException {
List<QueueInfo> queues = new ArrayList<QueueInfo>();

QueueInfo rootQueue =
    rmClient.getQueueInfo(getQueueInfoRequest(ROOT, false, true, true))
    .getQueueInfo();
getChildQueues(rootQueue, queues, true);
return queues;
}

@Override
public List<QueueInfo> getRootQueueInfos() throws YarnException, IOException {
List<QueueInfo> queues = new ArrayList<QueueInfo>();

QueueInfo rootQueue =
    rmClient.getQueueInfo(getQueueInfoRequest(ROOT, false, true, true))
    .getQueueInfo();
getChildQueues(rootQueue, queues, false);
return queues;
}

@Override
public List<QueueInfo> getChildQueueInfos(String parent) throws YarnException, IOException {
List<QueueInfo> queues = new ArrayList<QueueInfo>();

QueueInfo parentQueue =
    rmClient.getQueueInfo(getQueueInfoRequest(parent, false, true, false))
    .getQueueInfo();
getChildQueues(parentQueue, queues, true);
return queues;
}
private void getChildQueues(QueueInfo parent, List<QueueInfo> queues,
    boolean recursive) {
    List<QueueInfo> childQueues = parent.getChildQueues();

    for (QueueInfo child : childQueues) {
        queues.add(child);
        if (recursive) {
            getChildQueues(child, queues, recursive);
        }
    }
}

@Private
@VisibleForTesting
public void setRMClient(ApplicationClientProtocol rmClient) {
    this.rmClient = rmClient;
}

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 */

package org.apache.hadoop.yarn.client.api.async.impl;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.EnumSet;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.ThreadFactory;
import java.util.concurrent.ThreadPoolExecutor;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.locks.ReentrantReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock.ReadLock;
import java.util.concurrent.locks.ReentrantReadWriteLock.WriteLock;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.client.api.NMClient;
import org.apache.hadoop.yarn.client.api.async.NMClientAsync;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.event.AbstractEvent;
import org.apache.hadoop.yarn.event.EventHandler;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
import org.apache.hadoop.yarn.state.InvalidStateTransitionException;
import org.apache.hadoop.yarn.state.MultipleArcTransition;
import org.apache.hadoop.yarn.state.SingleArcTransition;
import org.apache.hadoop.yarn.state.StateMachine;
import org.apache.hadoop.yarn.state.StateMachineFactory;
import com.google.common.annotations.VisibleForTesting;
import com.google.common.util.concurrent.ThreadFactoryBuilder;

@Private
@Unstable
public class NMClientAsyncImpl extends NMClientAsync {

    private static final Log LOG = LogFactory.getLog(NMClientAsyncImpl.class);
    protected static final int INITIAL_THREAD_POOL_SIZE = 10;

    protected ThreadPoolExecutor threadPool;
    protected int maxThreadPoolSize;
    protected Thread eventDispatcherThread;

protected AtomicBoolean stopped = new AtomicBoolean(false);
protected BlockingQueue<ContainerEvent> events =
    new LinkedBlockingQueue<ContainerEvent>();

protected ConcurrentHashMap<ContainerId, StatefulContainer> containers =
    new ConcurrentHashMap<ContainerId, StatefulContainer>();

public NMClientAsyncImpl(CallbackHandler callbackHandler) {
    this(NMClientAsync.class.getName(), callbackHandler);
}

public NMClientAsyncImpl(String name, CallbackHandler callbackHandler) {
    this(name, new NMClientImpl(), callbackHandler);
}

@Private
@VisibleForTesting
protected NMClientAsyncImpl(String name, NMClient client,
    CallbackHandler callbackHandler) {
    super(name, client, callbackHandler);
    this.client = client;
    this.callbackHandler = callbackHandler;
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    this.maxThreadPoolSize = conf.getInt(YarnConfiguration.NM_CLIENT_ASYNC_THREAD_POOL_MAX_SIZE,
        YarnConfiguration.DEFAULT_NM_CLIENT_ASYNC_THREAD_POOL_MAX_SIZE);
    LOG.info("Upper bound of the thread pool size is " + maxThreadPoolSize);
    client.init(conf);
    super.serviceInit(conf);
}

@Override
protected void serviceStart() throws Exception {
    client.start();
    ThreadFactory tf = new ThreadFactoryBuilder().setNameFormat(
        this.getClass().getName() + " #\d").setDaemon(true).build();
    // Start with a default core-pool size and change it dynamically.
    int initSize = Math.min(INITIAL_THREAD_POOL_SIZE, maxThreadPoolSize);
    threadPool = new ThreadPoolExecutor(initSize, Integer.MAX_VALUE, 1,
        TimeUnit.HOURS, new LinkedBlockingQueue<Runnable>(), tf);
    eventDispatcherThread = new Thread() {
@Override
public void run() {
    ContainerEvent event = null;
    Set<String> allNodes = new HashSet<String>();

    while (!stopped.get() && !Thread.currentThread().isInterrupted()) {
        try {
            event = events.take();
        } catch (InterruptedException e) {
            if (!stopped.get()) {
                LOG.error("Returning, thread interrupted", e);
            }
            return;
        }

        allNodes.add(event.getNodeId().toString());

        int threadPoolSize = threadPool.getCorePoolSize();

        // We can increase the pool size only if haven't reached the maximum
        // limit yet.
        if (threadPoolSize != maxThreadPoolSize) {

            // nodes where containers will run at *this* point of time. This is
            // *not* the cluster size and doesn't need to be.
            int nodeNum = allNodes.size();
            int idealThreadPoolSize = Math.min(maxThreadPoolSize, nodeNum);

            if (threadPoolSize < idealThreadPoolSize) {
                // Bump up the pool size to idealThreadPoolSize +
                // INITIAL_POOL_SIZE, the later is just a buffer so we are not
                // always increasing the pool-size
                int newThreadPoolSize = Math.min(maxThreadPoolSize,
                        idealThreadPoolSize + INITIAL_THREAD_POOL_SIZE);
                LOG.info("Set NMClientAsync thread pool size to " +
                        newThreadPoolSize + " as the number of nodes to talk to is " +
                        nodeNum);
                threadPool.setCorePoolSize(newThreadPoolSize);
            }
        }

        // the events from the queue are handled in parallel with a thread
        // pool
        threadPool.execute(getContainerEventProcessor(event));

        // TODO: Group launching of multiple containers to a single
        // NodeManager into a single connection
    }
}
eventDispatcherThread.setName("Container Event Dispatcher");
eventDispatcherThread.setDaemon(false);
eventDispatcherThread.start();

super.serviceStart();
}

@Override
protected void serviceStop() throws Exception {
if (stopped.getAndSet(true)) {
    // return if already stopped
    return;
}
if (eventDispatcherThread != null) {
eventDispatcherThread.interrupt();
try {
eventDispatcherThread.join();
} catch (InterruptedException e) {
    LOG.error("The thread of " + eventDispatcherThread.getName() + 
                " didn't finish normally.", e);
}
}
if (threadPool != null) {
    threadPool.shutdownNow();
}
if (client != null) {
    // If NMClientImpl doesn't stop running containers, the states doesn't
    // need to be cleared.
    if (!!(client instanceof NMClientImpl) ||
            ((NMClientImpl) client).getCleanupRunningContainers().get()) {
        if (containers != null) {
            containers.clear();
        }
    }
    client.stop();
}
super.serviceStop();

public void startContainerAsync(
    Container container, ContainerLaunchContext containerLaunchContext) {
    if (containers.putIfAbsent(container.getId(),
        new StatefulContainer(this, container.getId())) != null) {
        callbackHandler.onStartContainerError(container.getId(),
            RPCUtil.getRemoteException("Container " + container.getId() +
            " is already started or scheduled to start");
    }
try {
    events.put(new StartContainerEvent(container, containerLaunchContext));
} catch (InterruptedException e) {
    LOG.warn("Exception when scheduling the event of starting Container "+
              container.getId());
    callbackHandler.onStartContainerError(container.getId(), e);
}

public void stopContainerAsync(ContainerId containerId, NodeId nodeId) {
    if (containers.get(containerId) == null) {
        callbackHandler.onStopContainerError(containerId,
                    RPCUtil.getRemoteException("Container " + containerId +
                                 " is neither started nor scheduled to start");
    }
    try {
        events.put(new ContainerEvent(containerId, nodeId, null,
                        ContainerEventType.STOP_CONTAINER));
    } catch (InterruptedException e) {
        LOG.warn("Exception when scheduling the event of stopping Container "+
                  containerId);
        callbackHandler.onStopContainerError(containerId, e);
    }
}

public void getContainerStatusAsync(ContainerId containerId, NodeId nodeId) {
    try {
        events.put(new ContainerEvent(containerId, nodeId, null,
                        ContainerEventType.QUERY_CONTAINER));
    } catch (InterruptedException e) {
        LOG.warn("Exception when scheduling the event of querying the status"+
                 " of Container " + containerId);
        callbackHandler.onGetContainerStatusError(containerId, e);
    }
}

protected static enum ContainerState {
    PREP, FAILED, RUNNING, DONE,
}

protected boolean isCompletelyDone(StatefulContainer container) {
    return container.getState() == ContainerState.DONE ||
           container.getState() == ContainerState.FAILED;
}

protected ContainerEventProcessor getContainerEventProcessor(
    ContainerEvent event) {
    }
return new ContainerEventProcessor(event);
}

/**
 * The type of the event of interacting with a container
 */
protected static enum ContainerEventType {
    START_CONTAINER,
    STOP_CONTAINER,
    QUERY_CONTAINER
}

protected static class ContainerEvent
    extends AbstractEvent<ContainerEventType> {
    private ContainerId containerId;
    private NodeId nodeId;
    private Token containerToken;

    public ContainerEvent(ContainerId containerId, NodeId nodeId,
                           Token containerToken, ContainerEventType type) {
        super(type);
        this.containerId = containerId;
        this.nodeId = nodeId;
        this.containerToken = containerToken;
    }

    public ContainerId getContainerId() {
        return containerId;
    }

    public NodeId getNodeId() {
        return nodeId;
    }

    public Token getContainerToken() {
        return containerToken;
    }
}

protected static class StartContainerEvent extends ContainerEvent {
    private Container container;
    private ContainerLaunchContext containerLaunchContext;

    public StartContainerEvent(Container container,
                                ContainerLaunchContext containerLaunchContext) {
        super(container.getId(), container.getNodeId(),
              container.getContainerToken(), ContainerEventType.START_CONTAINER);
        this.container = container;
    }

this.containerLaunchContext = containerLaunchContext;
}

public Container getContainer() {
    return container;
}

public ContainerLaunchContext getContainerLaunchContext() {
    return containerLaunchContext;
}

protected static class StatefulContainer implements
    EventHandler<ContainerEvent> {

    protected final static StateMachineFactory<StatefulContainer,
        ContainerState, ContainerEventType, ContainerEvent> stateMachineFactory
        = new StateMachineFactory<StatefulContainer, ContainerState,
            ContainerEventType, ContainerEvent>(ContainerState.PREP)

    // Transitions from PREP state
    .addTransition(ContainerState.PREP,
        EnumSet.of(ContainerState.RUNNING, ContainerState.FAILED),
        ContainerEventType.START_CONTAINER,
        new StartContainerTransition())
    .addTransition(ContainerState.PREP, ContainerState.DONE,
        ContainerEventType.STOP_CONTAINER, new OutOfOrderTransition())

    // Transitions from RUNNING state
    // RUNNING -> RUNNING should be the invalid transition
    .addTransition(ContainerState.RUNNING,
        EnumSet.of(ContainerState.DONE, ContainerState.FAILED),
        ContainerEventType.STOP_CONTAINER,
        new StopContainerTransition())

    // Transition from DONE state
    .addTransition(ContainerState.DONE, ContainerState.DONE,
        EnumSet.of(ContainerEventType.START_CONTAINER,
            ContainerEventType.STOP_CONTAINER))

    // Transition from FAILED state
    .addTransition(ContainerState.FAILED, ContainerState.FAILED,
        EnumSet.of(ContainerEventType.START_CONTAINER,
            ContainerEventType.STOP_CONTAINER));

    protected static class StartContainerTransition implements
        MultipleArcTransition<StatefulContainer, ContainerEvent,
            ContainerState> {


@Override
public ContainerState transition(
    StatefulContainer container, ContainerEvent event) {
ContainerId containerId = event.getContainerId();
try {
    StartContainerEvent scEvent = null;
    if (event instanceof StartContainerEvent) {
        scEvent = (StartContainerEvent) event;
    }
    assert scEvent != null;
    Map<String, ByteBuffer> allServiceResponse =
        container.nmClientAsync.getClient().startContainer(
            scEvent.getContainer(), scEvent.getContainerLaunchContext());
    try {
        container.nmClientAsync.getCallbackHandler().onContainerStarted(
            containerId, allServiceResponse);
    } catch (Throwable thr) {
        // Don't process user created unchecked exception
        LOG.info("Unchecked exception is thrown from onContainerStarted for " + "Container "+ containerId, thr);
    }
    return ContainerState.RUNNING;
} catch (YarnException e) {
    return onExceptionRaised(container, event, e);
} catch (IOException e) {
    return onExceptionRaised(container, event, e);
} catch (Throwable t) {
    return onExceptionRaised(container, event, t);
}
}

private ContainerState onExceptionRaised(StatefulContainer container,
    ContainerEvent event, Throwable t) {
try {
    container.nmClientAsync.getCallbackHandler().onStartContainerError(
        event.getContainerId(), t);
} catch (Throwable thr) {
    // Don't process user created unchecked exception
    LOG.info("Unchecked exception is thrown from onStartContainerError for " + "Container "+ event.getContainerId(), thr);
}
    return ContainerState.FAILED;
}

protected static class StopContainerTransition implements
MultipleArcTransition<StatefulContainer, ContainerEvent, ContainerState> {

@Override
public ContainerState transition(
    StatefulContainer container, ContainerEvent event) {
  ContainerId containerId = event.getContainerId();
  try {
    container.nmClientAsync.getClient().stopContainer(
        containerId, event.getNodeId());
    try {
      container.nmClientAsync.getCallbackHandler().onContainerStopped(
          event.getContainerId());
    } catch (Throwable thr) {
      // Don't process user created unchecked exception
      LOG.info("Unchecked exception is thrown from onContainerStopped for "+"Container "+ event.getContainerId(), thr);
    }
    return ContainerState.DONE;
  } catch (YarnException e) {
    onExceptionRaised(container, event, e);
  } catch (IOException e) {
    onExceptionRaised(container, event, e);
  } catch (Throwable t) {
    onExceptionRaised(container, event, t);
  }
}

private ContainerState onExceptionRaised(StatefulContainer container,
    ContainerEvent event, Throwable t) {
  try {
    container.nmClientAsync.getCallbackHandler().onStopContainerError(
        event.getContainerId(), t);
  } catch (Throwable thr) {
    // Don't process user created unchecked exception
    LOG.info("Unchecked exception is thrown from onStopContainerError for "+"Container "+ event.getContainerId(), thr);
  }
  return ContainerState.FAILED;
}

protected static class OutOfOrderTransition implements
    SingleArcTransition<StatefulContainer, ContainerEvent> {

  protected static final String STOP_BEFORE_START_ERROR_MSG =
      "Container was killed before it was launched";
}
@Override
public void transition(StatefulContainer container, ContainerEvent event) {
    try {
        container.nmClientAsync.getCallbackHandler().onStartContainerError(
            event.getContainerId(),
            RPCUtil.getRemoteException(STOP_BEFORE_START_ERROR_MSG));
    } catch (Throwable thr) {
        // Don't process user created unchecked exception
        LOG.info("Unchecked exception is thrown from onStartContainerError for " +
            "Container " + event.getContainerId(), thr);
    }
}

private final NMClientAsync nmClientAsync;
private final ContainerId containerId;
private final StateMachine<ContainerState, ContainerEventType, ContainerEvent> stateMachine;
private final ReadLock readLock;
private final WriteLock writeLock;

public StatefulContainer(NMClientAsync client, ContainerId containerId) {
    this.nmClientAsync = client;
    this.containerId = containerId;
    stateMachine = stateMachineFactory.make(this);
    ReentrantReadWriteLock lock = new ReentrantReadWriteLock();
    readLock = lock.readLock();
    writeLock = lock.writeLock();
}

@Override
public void handle(ContainerEvent event) {
    writeLock.lock();
    try {
        try {
            this.stateMachine.doTransition(event.getType(), event);
        } catch (InvalidStateTransitionException e) {
            LOG.error("Can't handle this event at current state", e);
        }
    } finally {
        writeLock.unlock();
    }
}

public ContainerId getContainerId() {
    return containerId;
}
public ContainerState getState() {
    readLock.lock();
    try {
        return stateMachine.getCurrentState();
    } finally {
        readLock.unlock();
    }
}

protected class ContainerEventProcessor implements Runnable {
    protected ContainerEvent event;

    public ContainerEventProcessor(ContainerEvent event) {
        this.event = event;
    }

    @Override
    public void run() {
        ContainerId containerId = event.getContainerId();
        LOG.info("Processing Event " + event + " for Container " + containerId);
        if (event.getType() == ContainerEventType.QUERY_CONTAINER) {
            try {
                ContainerStatus containerStatus = client.getContainerStatus(
                    containerId, event.getNodeId());
                try {
                    callbackHandler.onContainerStatusReceived(
                        containerId, containerStatus);
                } catch (Throwable thr) {
                    // Don't process user created unchecked exception
                    LOG.info("Unchecked exception is thrown from onContainerStatusReceived" + 
                        " for Container " + event.getContainerId(), thr);
                }
            } catch (YarnException e) {
                onExceptionRaised(containerId, e);
            } catch (IOException e) {
                onExceptionRaised(containerId, e);
            } catch (Throwable t) {
                onExceptionRaised(containerId, t);
            }
        } else {
            StatefulContainer container = containers.get(containerId);
            if (container == null) {
                LOG.info("Container " + containerId + " is already stopped or failed");
            } else {
                container.handle(event);
            }
        }
    }
}
if (isCompletelyDone(container)) {
    containers.remove(containerId);
}

private void onExceptionRaised(ContainerId containerId, Throwable t) {
    try {
        callbackHandler.onGetContainerStatusError(containerId, t);
    } catch (Throwable thr) {
        // Don't process user created unchecked exception
        LOG.info("Unchecked exception is thrown from onGetContainerStatusError" +
                " for Container " + containerId, thr);
    }
}

package org.apache.hadoop.yarn.client.api.async.impl;

import java.io.IOException;
import java.util.Collection;
import java.util.List;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.LinkedBlockingQueue;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;

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 */

package org.apache.hadoop.yarn.client.api.async.impl;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterResponse;
import org.apache.hadoop.yarn.api.records.AMCommand;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.FinalApplicationStatus;
import org.apache.hadoop.yarn.api.records.Priority;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.client.api.AMRMClient;
import org.apache.hadoop.yarn.client.api.AMRMClient.ContainerRequest;
import org.apache.hadoop.yarn.client.api.async.AMRMClientAsync;
import org.apache.hadoop.yarn.client.api.impl.AMRMClientImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;

import com.google.common.annotations.VisibleForTesting;

@Private
@Unstable
public class AMRMClientAsyncImpl<T extends ContainerRequest>
extends AMRMClientAsync<T> {

private static final Log LOG = LogFactory.getLog(AMRMClientAsyncImpl.class);

private final HeartbeatThread heartbeatThread;
private final CallbackHandlerThread handlerThread;

private final BlockingQueue<AllocateResponse> responseQueue;

private final Object unregisterHeartbeatLock = new Object();

private volatile boolean keepRunning;
private volatile float progress;
private volatile Throwable savedException;

public AMRMClientAsyncImpl(int intervalMs, CallbackHandler callbackHandler) {
    this(new AMRMClientImpl<T>(), intervalMs, callbackHandler);
}

@Private
@VisibleForTesting
public AMRMClientAsyncImpl(AMRMClient<T> client, int intervalMs,
CallbackHandler callbackHandler) {

    this(new AMRMClientImpl<T>(), intervalMs, callbackHandler);
}

@Private
@VisibleForTesting
public AMRMClientAsyncImpl(AMRMClient<T> client, int intervalMs,
    CallbackHandler callbackHandler) {

}
super(client, intervalMs, callbackHandler);
heartbeatThread = new HeartbeatThread();
handlerThread = new CallbackHandlerThread();
responseQueue = new LinkedBlockingQueue<AllocateResponse>();
keepRunning = true;
savedException = null;
}

@override
protected void serviceInit(Configuration conf) throws Exception {
    super.serviceInit(conf);
    client.init(conf);
}

@override
protected void serviceStart() throws Exception {
    handlerThread.setDaemon(true);
    handlerThread.start();
    client.start();
    super.serviceStart();
}

/**
 * Tells the heartbeat and handler threads to stop and waits for them to
 * terminate.
 */
@override
protected void serviceStop() throws Exception {
    keepRunning = false;
    heartbeatThread.interrupt();
    try {
        heartbeatThread.join();
    } catch (InterruptedException ex) {
        LOG.error("Error joining with heartbeat thread", ex);
    }
    client.stop();
    handlerThread.interrupt();
    super.serviceStop();
}

public void setHeartbeatInterval(int interval) {
    heartbeatIntervalMs.set(interval);
}

public List<? extends Collection<T>> getMatchingRequests(
    Priority priority,
    String resourceName,
    Resource capability) {
return client.getMatchingRequests(priority, resourceName, capability);
}
/**
* Registers this application master with the resource manager. On successful
* registration, starts the heartbeating thread.
* @throws YarnException
* @throws IOException
*/
public RegisterApplicationMasterResponse registerApplicationMaster(
    String appHostName, int appHostPort, String appTrackingUrl)
    throws YarnException, IOException {
RegisterApplicationMasterResponse response = client
    .registerApplicationMaster(appHostName, appHostPort, appTrackingUrl);
heartbeatThread.start();
return response;
}
/**
* Unregister the application master. This must be called in the end.
* @param appStatus Success/Failure status of the master
* @param appMessage Diagnostics message on failure
* @param appTrackingUrl New URL to get master info
* @throws YarnException
* @throws IOException
*/
public void unregisterApplicationMaster(FinalApplicationStatus appStatus,
    String appMessage, String appTrackingUrl) throws YarnException,
    IOException {
    synchronized (unregisterHeartbeatLock) {
        keepRunning = false;
        client.unregisterApplicationMaster(appStatus, appMessage, appTrackingUrl);
    }
}
/**
* Request containers for resources before calling <code>allocate</code>
* @param req Resource request
*/
public void addContainerRequest(T req) {
    client.addContainerRequest(req);
}
/**
* Remove previous container request. The previous container request may have
* already been sent to the ResourceManager. So even after the remove request
* the app must be prepared to receive an allocation for the previous request
* even after the remove request
*/
* @param req Resource request
 */
public void removeContainerRequest(T req) {
    client.removeContainerRequest(req);
}

/**
 * Release containers assigned by the Resource Manager. If the app cannot use
 * the container or wants to give up the container then it can release them.
 * The app needs to make new requests for the released resource capability if
 * it still needs it. e.g. it released non-local resources
 * @param containerId
 */
public void releaseAssignedContainer(ContainerId containerId) {
    client.releaseAssignedContainer(containerId);
}

/**
 * Get the currently available resources in the cluster.
 * A valid value is available after a call to allocate has been made
 * @return Currently available resources
 */
public Resource getAvailableResources() {
    return client.getAvailableResources();
}

/**
 * Get the current number of nodes in the cluster.
 * A valid value is available after a call to allocate has been made
 * @return Current number of nodes in the cluster
 */
public int getClusterNodeCount() {
    return client.getClusterNodeCount();
}

private class HeartbeatThread extends Thread {
    public HeartbeatThread() {
        super("AMRM Heartbeater thread");
    }

    public void run() {
        while (true) {
            AllocateResponse response = null;
            // synchronization ensures we don't send heartbeats after unregistering
            synchronized (unregisterHeartbeatLock) {
                if (!keepRunning) {
                    return;
                }
            }
        }
    }
}
try {
    response = client.allocate(progress);
} catch (Throwable ex) {
    LOG.error("Exception on heartbeat", ex);
    savedException = ex;
    // interrupt handler thread in case it waiting on the queue
    handlerThread.interrupt();
    return;
}

if (response != null) {
    while (true) {
        try {
            responseQueue.put(response);
            if (response.getAMCommand() == AMCommand.AM_RESYNC
                 || response.getAMCommand() == AMCommand.AM_SHUTDOWN) {
                return;
            }
            break;
        } catch (InterruptedException ex) {
            LOG.info("Interrupted while waiting to put on response queue", ex);
        }
    }

    try {
        Thread.sleep(heartbeatIntervalMs.get());
    } catch (InterruptedException ex) {
        LOG.info("Heartbeater interrupted", ex);
    }
}

private class CallbackHandlerThread extends Thread {
    public CallbackHandlerThread() {
        super("AMRM Callback Handler Thread");
    }

    public void run() {
        while (true) {
            if (!keepRunning) {
                return;
            }
            try {
                AllocateResponse response;
                if (savedException != null) {
                    // ...
LOG.error("Stopping callback due to: ", savedException);
handler.onError(savedException);
return;
}
try {
    response = responseQueue.take();
} catch (InterruptedException ex) {
    LOG.info("Interrupted while waiting for queue", ex);
    continue;
}

if (response.getAMCommand() != null) {
    switch(response.getAMCommand()) {
    case AM_RESYNC:
    case AM_SHUTDOWN:
        handler.onShutdownRequest();
        LOG.info("Shutdown requested. Stopping callback.");
        return;
    default:
        String msg =
            "Unhandled value of RM AMCommand: " + response.getAMCommand();
        LOG.error(msg);
        throw new YarnRuntimeException(msg);
    }
}
List<NodeReport> updatedNodes = response.getUpdatedNodes();
if (!updatedNodes.isEmpty()) {
    handler.onNodesUpdated(updatedNodes);
}

List<ContainerStatus> completed =
    response.getCompletedContainersStatuses();
if (!completed.isEmpty()) {
    handler.onContainersCompleted(completed);
}

List<Container> allocated = response.getAllocatedContainers();
if (!allocated.isEmpty()) {
    handler.onContainersAllocated(allocated);
}

progress = handler.getProgress();
} catch (Throwable ex) {
    handler.onError(ex);
    // re-throw exception to end the thread
    throw new YarnRuntimeException(ex);
}
package org.apache.hadoop.yarn.client.api.impl;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.SortedMap;
import java.util.TreeMap;
import java.util.TreeSet;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateRequest;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;

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 * limitations under the License.
 */

package org.apache.hadoop.yarn.client.api.impl;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.SortedMap;
import java.util.TreeMap;
import java.util.TreeSet;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateRequest;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;

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 * limitations under the License.
 */
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterRequest;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterRequest;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.FinalApplicationStatus;
import org.apache.hadoop.yarn.api.records.NMToken;
import org.apache.hadoop.yarn.api.records.Priority;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.api.records.ResourceBlacklistRequest;
import org.apache.hadoop.yarn.api.records.ResourceRequest;
import org.apache.hadoop.yarn.client.ClientRMProxy;
import org.apache.hadoop.yarn.client.api.AMRMClient;
import org.apache.hadoop.yarn.client.api.AMRMClient.ContainerRequest;
import org.apache.hadoop.yarn.client.api.InvalidContainerRequestException;
import org.apache.hadoop.yarn.client.api.NMTokenCache;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.util.RackResolver;

import com.google.common.annotations.VisibleForTesting;
import com.google.common.base.Joiner;
import com.google.common.base.Preconditions;

@Private
@Unstable
public class AMRMClientImpl<T extends ContainerRequest> extends AMRMClient<T> {

private static final Log LOG = LogFactory.getLog(AMRMClientImpl.class);
private static final List<String> ANY_LIST = Collections.singletonList(ResourceRequest.ANY);

private int lastResponseId = 0;

protected ApplicationMasterProtocol rmClient;
protected Resource clusterAvailableResources;
protected int clusterNodeCount;

protected final Set<String> blacklistAdditions = new HashSet<String>();
protected final Set<String> blacklistRemovals = new HashSet<String>();

class ResourceRequestInfo {
    ResourceRequest remoteRequest;
    LinkedHashSet<T> containerRequests;

    ResourceRequestInfo(Priority priority, String resourceName,
                        Resource capability, boolean relaxLocality) {

import com.google.common.annotations.VisibleForTesting;
import com.google.common.base.Joiner;
import com.google.common.base.Preconditions;

@Private
@Unstable
public class AMRMClientImpl<T extends ContainerRequest> extends AMRMClient<T> {

private static final Log LOG = LogFactory.getLog(AMRMClientImpl.class);
private static final List<String> ANY_LIST = Collections.singletonList(ResourceRequest.ANY);

private int lastResponseId = 0;

protected ApplicationMasterProtocol rmClient;
protected Resource clusterAvailableResources;
protected int clusterNodeCount;

protected final Set<String> blacklistAdditions = new HashSet<String>();
protected final Set<String> blacklistRemovals = new HashSet<String>();

class ResourceRequestInfo {
    ResourceRequest remoteRequest;
    LinkedHashSet<T> containerRequests;

    ResourceRequestInfo(Priority priority, String resourceName,
                        Resource capability, boolean relaxLocality) {
remoteRequest = ResourceRequest.newInstance(priority, resourceName, capability, 0);
remoteRequest.setRelaxLocality(relaxLocality);
containerRequests = new LinkedHashSet<T>();
}
}

/**
 * Class compares Resource by memory then cpu in reverse order
 */
class ResourceReverseMemoryThenCpuComparator implements Comparator<Resource> {
    @Override
    public int compare(Resource arg0, Resource arg1) {
        int mem0 = arg0.getMemory();
        int mem1 = arg1.getMemory();
        int cpu0 = arg0.getVirtualCores();
        int cpu1 = arg1.getVirtualCores();
        if(mem0 == mem1) {
            if(cpu0 == cpu1) {
                return 0;
            }
            if(cpu0 < cpu1) {
                return 1;
            }
        }
        return -1;
    }
}

static boolean canFit(Resource arg0, Resource arg1) {
    int mem0 = arg0.getMemory();
    int mem1 = arg1.getMemory();
    int cpu0 = arg0.getVirtualCores();
    int cpu1 = arg1.getVirtualCores();
    if(mem0 <= mem1 && cpu0 <= cpu1) {
        return true;
    }
    return false;
}

//Key -> Priority
//Value -> Map
protected final Map<Priority, Map<String, TreeMap<Resource, ResourceRequestInfo>>> remoteRequestsTable =
new TreeMap<Priority, Map<String, TreeMap<Resource, ResourceRequestInfo>>>();

protected final Set<ResourceRequest> ask = new TreeSet<ResourceRequest>(
protected final Set<ContainerId> release = new TreeSet<ContainerId>();

class AMRMClientImpl {
    super(AMRMClientImpl.class.getName());
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    RackResolver.init(conf);
    super.serviceInit(conf);
}

@Override
protected void serviceStart() throws Exception {
    final YarnConfiguration conf = new YarnConfiguration(getConfig());
    try {
        rmClient =
            ClientRMProxy.createRMProxy(conf, ApplicationMasterProtocol.class);
    } catch (IOException e) {
        throw new YarnRuntimeError(e);
    }
    super.serviceStart();
}

@Override
protected void serviceStop() throws Exception {
    if (this.rmClient != null) {
        RPC.stopProxy(this.rmClient);
    }
    super.serviceStop();
}

@Override
public RegisterApplicationMasterResponse registerApplicationMaster(
    String appHostName, int appHostPort, String appTrackingUrl)
    throws YarnException, IOException {
    Preconditions.checkNotNull(appHostName != null,

"The host name should not be null";
Preconditions.checkArgument(appHostPort >= -1, "Port number of the host" + " should be any integers larger than or equal to -1");
// do this only once ???
    RegisterApplicationMasterRequest request =
        RegisterApplicationMasterRequest.newInstance(appHostName, appHostPort,
            appTrackingUrl);
    RegisterApplicationMasterResponse response =
        rmClient.registerApplicationMaster(request);
    return response;
}

@Override
public AllocateResponse allocate(float progressIndicator)
    throws YarnException, IOException {
    Preconditions.checkArgument(progressIndicator >= 0,
        "Progress indicator should not be negative");
    AllocateResponse allocateResponse = null;
    List<ResourceRequest> askList = null;
    List<ContainerId> releaseList = null;
    AllocateRequest allocateRequest = null;
    List<String> blacklistToAdd = new ArrayList<String>();
    List<String> blacklistToRemove = new ArrayList<String>();
    try {
        synchronized (this) {
            askList = new ArrayList<ResourceRequest>(ask.size());
            for(ResourceRequest r : ask) {
                // create a copy of ResourceRequest as we might change it while the
                // RPC layer is using it to send info across
                askList.add(ResourceRequest.newInstance(r.getPriority(),
                    r.getResourceName(), r.getCapability(), r.getNumContainers(),
                    r.getRelaxLocality()));
            }
            releaseList = new ArrayList<ContainerId>(release);
            // optimistically clear this collection assuming no RPC failure
            ask.clear();
            release.clear();

            blacklistToAdd.addAll(blacklistAdditions);
            blacklistToRemove.addAll(blacklistRemovals);

            ResourceBlacklistRequest blacklistRequest =
                (blacklistToAdd != null) || (blacklistToRemove != null) ?
                    ResourceBlacklistRequest.newInstance(blacklistToAdd,
                        blacklistToRemove) : null;

            allocateRequest =
                }
AllocateRequest.newInstance(lastResponseId, progressIndicator, askList, releaseList, blacklistRequest);
// clear blacklistAdditions and blacklistRemovals before
// unsynchronized part
blacklistAdditions.clear();
blacklistRemovals.clear();
}

allocateResponse = rmClient.allocate(allocateRequest);

synchronized (this) {
    // update these on successful RPC
    clusterNodeCount = allocateResponse.getNumClusterNodes();
    lastResponseId = allocateResponse.getResponseId();
    clusterAvailableResources = allocateResponse.getAvailableResources();
    if (!allocateResponse.getNMTokens().isEmpty()) {
        populateNMTokens(allocateResponse);
    }
} finally {
    // TODO how to differentiate remote yarn exception vs error in rpc
    if (allocateResponse == null) {
        // we hit an exception in allocate()
        // preserve ask and release for next call to allocate()
        synchronized (this) {
            release.addAll(releaseList);
            // requests could have been added or deleted during call to allocate
            // If requests were added/removed then there is nothing to do since
            // the ResourceRequest object in ask would have the actual new value.
            // If ask does not have this ResourceRequest then it was unchanged and
            // so we can add the value back safely.
            // This assumes that there will no concurrent calls to allocate() and
            // so we dont have to worry about ask being changed in the
            // synchronized block at the beginning of this method.
            for (ResourceRequest oldAsk : askList) {
                if (!ask.contains(oldAsk)) {
                    ask.add(oldAsk);
                }
            }
        }
        blacklistAdditions.addAll(blacklistToAdd);
        blacklistRemovals.addAll(blacklistToRemove);
    }
}
return allocateResponse;
protected void populateNMTokens(AllocateResponse allocateResponse) {
    for (NMToken token : allocateResponse.getNMTokens()) {
        String nodeId = token.getNodeId().toString();
        if (NMTokenCache.containsNMToken(nodeId)) {
            LOG.debug("Replacing token for : " + nodeId);
        } else {
            LOG.debug("Received new token for : " + nodeId);
        }
        NMTokenCache.setNMToken(nodeId, token.getToken());
    }
}

@Override
public void unregisterApplicationMaster(FinalApplicationStatus appStatus, String appMessage, String appTrackingUrl) throws YarnException, IOException {
    Preconditions.checkNotNull(appStatus != null, "AppStatus should not be null.");
    FinishApplicationMasterRequest request = FinishApplicationMasterRequest.newInstance(appStatus, appMessage, appTrackingUrl);
    try {
        while (true) {
            FinishApplicationMasterResponse response = rmClient.finishApplicationMaster(request);
            if (response.getIsUnregistered()) {
                break;
            }
            LOG.info("Waiting for application to be successfully unregistered.");
            Thread.sleep(100);
        }
    } catch (InterruptedException e) {
        LOG.info("Interrupted while waiting for application" + " to be removed from RMStateStore");
    }
}

@Override
public synchronized void addContainerRequest(T req) { 
    Preconditions.checkNotNull(req != null, "Resource request can not be null.");
    Set<String> dedupedRacks = new HashSet<String>();
    if (req.getRacks() != null) {
        dedupedRacks.addAll(req.getRacks());
        if(req.getRacks().size() != dedupedRacks.size()) {
            Joiner joiner = Joiner.on(',');
        }
    }
}
LOG.warn("ContainerRequest has duplicate racks: "+joiner.join(req.getRacks()));
}
}
Set<String> inferredRacks = resolveRacks(req.getNodes());
inferredRacks.removeAll(dedupedRacks);

// check that specific and non-specific requests cannot be mixed within a
// priority
checkLocalityRelaxationConflict(req.getPriority(), ANY_LIST,
    req.getRelaxLocality());
// check that specific rack cannot be mixed with specific node within a
// priority. If node and its rack are both specified then they must be
// in the same request.
// For explicitly requested racks, we set locality relaxation to true
checkLocalityRelaxationConflict(req.getPriority(), dedupedRacks, true);
checkLocalityRelaxationConflict(req.getPriority(), inferredRacks,
    req.getRelaxLocality());

if (req.getNodes() != null) {
    HashSet<String> dedupedNodes = new HashSet<String>(req.getNodes());
    if (dedupedNodes.size() != req.getNodes().size()) {
        Joiner joiner = Joiner.on(',');
        LOG.warn("ContainerRequest has duplicate nodes: "+joiner.join(req.getNodes()));
    }
    for (String node : dedupedNodes) {
        addResourceRequest(req.getPriority(), node, req.getCapability(), req,
            true);
    }
}

for (String rack : dedupedRacks) {
    addResourceRequest(req.getPriority(), rack, req.getCapability(), req,
        true);
}

// Ensure node requests are accompanied by requests for
// corresponding rack
for (String rack : inferredRacks) {
    addResourceRequest(req.getPriority(), rack, req.getCapability(), req,
        req.getRelaxLocality());
}

// Off-switch
addResourceRequest(req.getPriority(), ResourceRequest.ANY,
    req.getCapability(), req, req.getRelaxLocality());
@Override
public synchronized void removeContainerRequest(T req) {
    Preconditions.checkNotNull(req, "Resource request can not be null.");
    Set<String> allRacks = new HashSet<String>();
    if (req.getRacks() != null) {
        allRacks.addAll(req.getRacks());
    }
    allRacks.addAll(resolveRacks(req.getNodes()));

    // Update resource requests
    if (req.getNodes() != null) {
        for (String node : new HashSet<String>(req.getNodes())) {
            decResourceRequest(req.getPriority(), node, req.getCapability(), req);
        }
    }
    for (String rack : allRacks) {
        decResourceRequest(req.getPriority(), rack, req.getCapability(), req);
    }
    decResourceRequest(req.getPriority(), ResourceRequest.ANY, req.getCapability(), req);
}

@Override
public synchronized void releaseAssignedContainer(ContainerId containerId) {
    Preconditions.checkNotNull(containerId, "ContainerId can not be null.");
    release.add(containerId);
}

@Override
public synchronized Resource getAvailableResources() {
    return clusterAvailableResources;
}

@Override
public synchronized int getClusterNodeCount() {
    return clusterNodeCount;
}

@Override
public synchronized List<? extends Collection<T>> getMatchingRequests(
    Priority priority,
    String resourceName,
    Resource capability) {
Preconditions.checkArgument(capability != null,  
"The Resource to be requested should not be null ");
Preconditions.checkArgument(priority != null,  
"The priority at which to request containers should not be null ");
List<LinkedHashSet<T>> list = new LinkedList<LinkedHashSet<T>>(
);  
Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =  
this.remoteRequestsTable.get(priority);
if (remoteRequests == null) {
    return list;
}
TreeMap<Resource, ResourceRequestInfo> reqMap = remoteRequests  
.get(resourceName);
if (reqMap == null) {
    return list;
}

ResourceRequestInfo resourceRequestInfo = reqMap.get(capability);
if (resourceRequestInfo != null &&  
    !resourceRequestInfo.containerRequests.isEmpty()) {
    list.add(resourceRequestInfo.containerRequests);
    return list;
}

// no exact match. Container may be larger than what was requested.  
// get all resources <= capability. map is reverse sorted.
SortedMap<Resource, ResourceRequestInfo> tailMap =  
    reqMap.tailMap(capability);
for(Map.Entry<Resource, ResourceRequestInfo> entry : tailMap.entrySet()) {
    if (canFit(entry.getKey(), capability) &&  
        !entry.getValue().containerRequests.isEmpty()) {
        // match found that fits in the larger resource
        list.add(entry.getValue().containerRequests);
    }
}

// no match found
return list;

private Set<String> resolveRacks(List<String> nodes) {  
    Set<String> racks = new HashSet<String>();
    if (nodes != null) {
        for (String node : nodes) {  
            // Ensure node requests are accompanied by requests for  
            // corresponding rack
            String rack = RackResolver.resolve(node).getNetworkLocation();
            if (rack == null) {  
                LOG.warn("Failed to resolve rack for node ", node,");
            }

            racks.add(rack);
        }
    }
    return racks;
}
else {
    racks.add(rack);
}
}
}

return racks;

/**
* ContainerRequests with locality relaxation cannot be made at the same
* priority as ContainerRequests without locality relaxation.
*/
private void checkLocalityRelaxationConflict(Priority priority,
    Collection<String> locations, boolean relaxLocality) {
    Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =
        this.remoteRequestsTable.get(priority);
    if (remoteRequests == null) {
        return;
    }
    // Locality relaxation will be set to relaxLocality for all implicitly
    // requested racks. Make sure that existing rack requests match this.
    for (String location : locations) {
        TreeMap<Resource, ResourceRequestInfo> reqs =
            remoteRequests.get(location);
        if (reqs != null && !reqs.isEmpty() &&
            reqs.values().iterator().next().remoteRequest.getRelaxLocality() !=
            relaxLocality) {
            throw new InvalidContainerRequestException("Cannot submit a "+
                "ContainerRequest asking for location " + location
                + " with locality relaxation " + relaxLocality + " when it has "
                + "already been requested with locality relaxation " + relaxLocality);
        }
    }
}

private void addResourceRequestToAsk(ResourceRequest remoteRequest) {
    // This code looks weird but is needed because of the following scenario.
    // A ResourceRequest is removed from the remoteRequestTable. A 0 container
    // request is added to 'ask' to notify the RM about not needing it any more.
    // Before the call to allocate, the user now requests more containers. If
    // the locations of the 0 size request and the new request are the same
    // (with the difference being only container count), then the set comparator
    // will consider both to be the same and not add the new request to ask. So
    // we need to check for the "same" request being present and remove it and
    // then add it back. The comparator is container count agnostic.
    // This should happen only rarely but we do need to guard against it.
    if (ask.contains(remoteRequest)) {

private void addResourceRequest(Priority priority, String resourceName,
    Resource capability, T req, boolean relaxLocality) {
    Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =
        this.remoteRequestsTable.get(priority);
    if (remoteRequests == null) {
        remoteRequests =
            new HashMap<String, TreeMap<Resource, ResourceRequestInfo>>();
        this.remoteRequestsTable.put(priority, remoteRequests);
        if (LOG.isDebugEnabled()) {
            LOG.debug("Added priority=" + priority);
        }
    }
    TreeMap<Resource, ResourceRequestInfo> reqMap =
        remoteRequests.get(resourceName);
    if (reqMap == null) {
        // capabilities are stored in reverse sorted order. smallest last.
        reqMap = new TreeMap<Resource, ResourceRequestInfo>(
            new ResourceReverseMemoryThenCpuComparator());
        remoteRequests.put(resourceName, reqMap);
    }
    ResourceRequestInfo resourceRequestInfo = reqMap.get(capability);
    if (resourceRequestInfo == null) {
        resourceRequestInfo =
            new ResourceRequestInfo(priority, resourceName, capability,
                relaxLocality);
        reqMap.put(capability, resourceRequestInfo);
    }
    resourceRequestInfo.remoteRequest.setNumContainers(
        resourceRequestInfo.remoteRequest.getNumContainers() + 1);
    if (relaxLocality) {
        resourceRequestInfo.containerRequests.add(req);
    }
    // Note this down for next interaction with ResourceManager
    addResourceRequestToAsk(resourceRequestInfo.remoteRequest);
    if (LOG.isDebugEnabled()) {
        LOG.debug("addResourceRequest:" + " applicationId="
            + " priority=" + priority.getPriority()
            + " resourceName=" + resourceName + " numContainers="
            + resourceRequestInfo.remoteRequest.getNumContainers()
private void decResourceRequest(Priority priority,
        String resourceName,
        Resource capability,
        T req) {
    Map<String, TreeMap<Resource, ResourceRequestInfo>> remoteRequests =
        this.remoteRequestsTable.get(priority);

    if(remoteRequests == null) {
        if (LOG.isDebugEnabled()) {
            LOG.debug("Not decrementing resource as priority " + priority
                      + " is not present in request table");
        }
        return;
    }

    Map<Resource, ResourceRequestInfo> reqMap = remoteRequests.get(resourceName);
    if (reqMap == null) {
        if (LOG.isDebugEnabled()) {
            LOG.debug("Not decrementing resource as " + resourceName
                      + " is not present in request table");
        }
        return;
    }

    ResourceRequestInfo resourceRequestInfo = reqMap.get(capability);

    if (LOG.isDebugEnabled()) {
        LOG.debug("BEFORE decResourceRequest:" + " applicationId="
                + " priority=" + priority.getPriority()
                + " resourceName=" + resourceName + " numContainers="
                + resourceRequestInfo.remoteRequest.getNumContainers()
                + " #asks=" + ask.size());
    }

    resourceRequestInfo.remoteRequest.setNumContainers(
        resourceRequestInfo.remoteRequest.getNumContainers() - 1);

    resourceRequestInfo.containerRequests.remove(req);

    if(resourceRequestInfo.remoteRequest.getNumContainers() < 0) {
        // guard against spurious removals
        resourceRequestInfo.remoteRequest.setNumContainers(0);
    }

    // send the ResourceRequest to RM even if is 0 because it needs to override
    // a previously sent value. If ResourceRequest was not sent previously then
// sending 0 aught to be a no-op on RM
addResourceRequestToAsk(resourceRequestInfo.remoteRequest);

// delete entries from map if no longer needed
if (resourceRequestInfo.remoteRequest.getNumContainers() == 0) {
    reqMap.remove(capability);
    if (reqMap.size() == 0) {
        remoteRequests.remove(resourceName);
    }
    if (remoteRequests.size() == 0) {
        remoteRequestsTable.remove(priority);
    }
}

if (LOG.isDebugEnabled()) {
    LOG.info("AFTER decResourceRequest: applicationId=
    + " + priority.getPriority() + " resourceName=
    + resourceRequestInfo.remoteRequest.getNumContainers()
    + " #asks=" + ask.size());
}

@Override
public synchronized void updateBlacklist(List<String> blacklistAdditions,
        List<String> blacklistRemovals) {

    if (blacklistAdditions != null) {
        this.blacklistAdditions.addAll(blacklistAdditions);
        // if some resources are also in blacklistRemovals updated before, we
        // should remove them here.
        this.blacklistRemovals.removeAll(blacklistAdditions);
    }

    if (blacklistRemovals != null) {
        this.blacklistRemovals.addAll(blacklistRemovals);
        // if some resources are in blacklistAdditions before, we should remove
        // them here.
        this.blacklistAdditions.removeAll(blacklistRemovals);
    }

    if (blacklistAdditions != null && blacklistRemovals != null
        && blacklistAdditions.removeAll(blacklistRemovals)) {
        // we allow resources to appear in addition list and removal list in the
        // same invocation of updateBlacklist(), but should get a warn here.
        LOG.warn("The same resources appear in both blacklistAdditions and " +
        "blacklistRemovals in updateBlacklist.");
    }
package org.apache.hadoop.yarn.client.api.impl;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.atomic.AtomicBoolean;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.security.token.SecretManager.InvalidToken;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.ContainerState;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.NodeId;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.client.api.NMClient;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;

/**
 * This class implements {@link NMClient}. All the APIs are blocking.
 * 
 * By default, this client stops all the running containers that are started by
 * it when it stops. It can be disabled via
 * [@link #cleanupRunningContainersOnStop], in which case containers will
 * continue to run even after this client is stopped and till the application
 * runs at which point ResourceManager will forcefully kill them.
 * 
 * Note that the blocking APIs ensure the RPC calls to <code>NodeManager</code>
 * are executed immediately, and the responses are received before these APIs
 * return. However, when [@link #startContainer] or [@link #stopContainer]
 * returns, <code>NodeManager</code> may still need some time to either start
 * or stop the container because of its asynchronous implementation. Therefore,
 * [@link #getContainerStatus] is likely to return a transit container status
 * if it is executed immediately after [@link #startContainer] or
 * [@link #stopContainer].
 */
@Private
@Unstable
public class NMClientImpl extends NMClient {

private static final Log LOG = LogFactory.getLog(NMClientImpl.class);

// The logically coherent operations on startedContainers is synchronized to
// ensure they are atomic
protected ConcurrentHashMap<ContainerId, StartedContainer> startedContainers =
    new ConcurrentHashMap<ContainerId, StartedContainer>();

//enabled by default
private final AtomicBoolean cleanupRunningContainers = new AtomicBoolean(true);
private ContainerManagementProtocolProxy cmProxy;

public NMClientImpl() {
    super(NMClientImpl.class.getName());
}

public NMClientImpl(String name) {
    super(name);
}

@Override
protected void serviceStop() throws Exception {
    // Usually, started-containers are stopped when this client stops. Unless
    // the flag cleanupRunningContainers is set to false.
    if (getCleanupRunningContainers().get()) {
        cleanupRunningContainers();
    }
    cmProxy.stopAllProxies();
    super.serviceStop();
}

protected synchronized void cleanupRunningContainers() {
    for (StartedContainer startedContainer : startedContainers.values()) {
        try {
            stopContainer(startedContainer.getContainerId(),
                         startedContainer.getNodeId());
        } catch (YarnException e) {
            LOG.error("Failed to stop Container " +
                       startedContainer.getContainerId() +
                       "when stopping NMClientImpl");
        } catch (IOException e) {
            LOG.error("Failed to stop Container " +
                       startedContainer.getContainerId() +
                       "when stopping NMClientImpl");
        }
    }
}

@Override
protected void serviceInit(Configuration conf) throws Exception {
    super.serviceInit(conf);
    cmProxy = new ContainerManagementProtocolProxy(conf);
}

@Override
public void cleanupRunningContainersOnStop(boolean enabled) {
    getCleanupRunningContainers().set(enabled);
}
protected static class StartedContainer {
    private ContainerId containerId;
    private NodeId nodeId;
    private ContainerState state;

    public StartedContainer(ContainerId containerId, NodeId nodeId,
            Token containerToken) {
        this.containerId = containerId;
        this.nodeId = nodeId;
        state = ContainerState.NEW;
    }

    public ContainerId getContainerId() {
        return containerId;
    }

    public NodeId getNodeId() {
        return nodeId;
    }
}

private void addStartingContainer(StartedContainer startedContainer)
        throws YarnException {
    if (startedContainers.putIfAbsent(startedContainer.containerId,
            startedContainer) != null) {
        throw RPCUtil.getRemoteException("Container 
                + startedContainer.containerId.toString() + " is already started");
    }
    startedContainers
        .put(startedContainer.getContainerId(), startedContainer);
}

@Override
public Map<String, ByteBuffer> startContainer(
        Container container, ContainerLaunchContext containerLaunchContext)
        throws YarnException, IOException {
    // Do synchronization on StartedContainer to prevent race condition 
    // between startContainer and stopContainer only when startContainer is 
    // in progress for a given container.
    StartedContainer startingContainer = createStartedContainer(container);
    synchronized (startingContainer) {
        addStartingContainer(startingContainer);

        Map<String, ByteBuffer> allServiceResponse;
        ContainerManagementProtocolProxyData proxy = null;
        try {
            proxy =
cmProxy.getProxy(container.getNodeId().toString(),
    container.getId());
StartContainerRequest scRequest =
    StartContainerRequest.newInstance(containerLaunchContext,
    container.getContainerToken());
List<StartContainerRequest> list = new ArrayList<StartContainerRequest>();
list.add(scRequest);
StartContainersRequest allRequests =
    StartContainersRequest.newInstance(list);
StartContainersResponse response =
    proxy
    .getContainerManagementProtocol().startContainers(allRequests);
if (response.getFailedRequests() != null
    && response.getFailedRequests().containsKey(container.getId())) {
    Throwable t =
    response.getFailedRequests().get(container.getId()).deSerialize();
    parseAndThrowException(t);
}
allServiceResponse = response.getAllServicesMetaData();
startingContainer.state = ContainerState.RUNNING;
} catch (YarnException e) {
    startingContainer.state = ContainerState.COMPLETE;
    // Remove the started container if it failed to start
    removeStartedContainer(startingContainer);
    throw e;
} catch (IOException e) {
    startingContainer.state = ContainerState.COMPLETE;
    removeStartedContainer(startingContainer);
    throw e;
} catch (Throwable t) {
    startingContainer.state = ContainerState.COMPLETE;
    removeStartedContainer(startingContainer);
    throw RPCUtil.getRemoteException(t);
} finally {
    if (proxy != null) {
        cmProxy.mayBeCloseProxy(proxy);
    }
}
return allServiceResponse;

@Override
public void stopContainer(ContainerId containerId, NodeId nodeId)
    throws YarnException, IOException {
    StartedContainer startedContainer = getStartedContainer(containerId);

    // Only allow one request of stopping the container to move forward
// When entering the block, check whether the precursor has already stopped
// the container
if (startedContainer != null) {
    synchronized (startedContainer) {
        if (startedContainer.state != ContainerState.RUNNING) {
            return;
        }
        stopContainerInternal(containerId, nodeId);
    }
} else {
    stopContainerInternal(containerId, nodeId);
}

@Override
public ContainerStatus getContainerStatus(ContainerId containerId, NodeId nodeId) throws YarnException, IOException {

    ContainerManagementProtocolProxyData proxy = null;
    List<ContainerId> containerIds = new ArrayList<ContainerId>();
    containerIds.add(containerId);
    try {
        proxy = cmProxy.getProxy(nodeId.toString(), containerId);
        GetContainerStatusesResponse response =
            proxy.getContainerManagementProtocol().getContainerStatuses(
                GetContainerStatusesRequest.newInstance(containerIds));
        if (response.getFailedRequests() != null
            && response.getFailedRequests().containsKey(containerId)) {
            Throwable t =
                response.getFailedRequests().get(containerId).deSerialize();
            parseAndThrowException(t);
        }
        ContainerStatus containerStatus = response.getContainerStatuses().get(0);
        return containerStatus;
    } finally {
        if (proxy != null) {
            cmProxy.mayBeCloseProxy(proxy);
        }
    }
}

private void stopContainerInternal(ContainerId containerId, NodeId nodeId)
    throws IOException, YarnException {
    ContainerManagementProtocolProxyData proxy = null;
}
List<ContainerId> containerIds = new ArrayList<ContainerId>();
containerIds.add(containerId);
try {
    proxy = cmProxy.getProxy(nodeId.toString(), containerId);
    StopContainersResponse response =
        proxy.getContainerManagementProtocol().stopContainers(
            StopContainersRequest.newInstance(containerIds));
    if (response.getFailedRequests() != null
        && response.getFailedRequests().containsKey(containerId)) {
        Throwable t = response.getFailedRequests().get(containerId)
            .deSerialize();
        parseAndThrowException(t);
    }
} finally {
    if (proxy != null) {
        cmProxy.mayBeCloseProxy(proxy);
    }
}

protected synchronized StartedContainer createStartedContainer(
    Container container) throws YarnException, IOException {
    StartedContainer startedContainer = new StartedContainer(container.getId(),
        container.getNodeId(), container.getContainerToken());
    return startedContainer;
}

protected synchronized void removeStartedContainer(StartedContainer container) {
    startedContainers.remove(container.containerId);
}

protected synchronized StartedContainer getStartedContainer(
    ContainerId containerId) {
    return startedContainers.get(containerId);
}

public AtomicBoolean getCleanupRunningContainers() {
    return cleanupRunningContainers;
}

private void parseAndThrowException(Throwable t) throws YarnException,
    IOException {
    if (t instanceof YarnException) {
        throw (YarnException) t;
    } else if (t instanceof InvalidToken) {
        throw (InvalidToken) t;
    } else {
throw (IOException) t;
}
}

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1.183.1 Available under license:

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<signature of Ty Coon>, 1 April 1989
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library. If this is what you want to do, use the GNU Library General
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(This file is under construction.)-*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.
The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner’s mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

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

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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Preamble
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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/ListIndexesIterableImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/ListCollectionsIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/ListDatabasesIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-jar/com/mongodb/async/client/ListCollectionsIterableImpl.java

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* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/FindIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/MongoClientSettings.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/FindIterableImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/package-info.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/MappingIterable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/MongoClient.java
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* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/MongoDatabase.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1.jar/com/mongodb/async/client/MongoClientImpl.java

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  jar/com/mongodb/async/client/MongoCollectionImpl.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/MongoDatabaseImpl.java

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  jar/com/mongodb/async/client/gridfs/GridFSDownloadStream.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/gridfs/helpers/package-info.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/gridfs/helpers/AsyncStreamHelper.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/gridfs/GridFSBucket.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
  jar/com/mongodb/async/client/Observable.java
* /opt/cola/permits/1137987632_1614191199.0/0/mongodb-driver-async-3-6-0-sources-1-
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  jar/com/mongodb/async/client/NettyMongoClients.java

1.192 redis-rails 5.0.2

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1.194 method-source 1.0.0

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1.196 psutil 5.1.3
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1.197 golang-mock 1.4.1

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copyright_file=mock_copyright_header

package empty_interface

type Empty interface

// This is a mock copyright header.

// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (  
gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface
type MockEmpty struct {
  ctrl   *gomock.Controller
  recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty
type MockEmptyMockRecorder struct {
  mock *MockEmpty
}

// NewMockEmpty creates a new mock instance
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
  mock := &MockEmpty{
    ctrl: ctrl,
  }
  mock.recorder = &MockEmptyMockRecorder{mock}
  return mock
}
return mock
}

// EXPECT returns an object that allows the caller to indicate expected use
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return m.recorder
}

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1.198 jackson-jaxrs-base 2.9.6

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1.199 libpng 1.2.49 2.el6_7

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1.200 patsy 0.4.1

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1.201 mysql 5.1.73 8.el6_8

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Last updated: 2009-02-28

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1.217 rpm 4.11.3-35.el7

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1.222 netty-handler-proxy 4.1.27.Final

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* /opt/ws_local/PERMITS_SQL/1072607575_1595017294.94/0/netty-handler-proxy-4-1-27-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/ws_local/PERMITS_SQL/1072607575_1595017294.94/0/netty-handler-proxy-4-1-27-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1072607575_1595017294.94/0/netty-handler-proxy-4-1-27-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java

1.223 multipledispatch 0.4.8
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1.224 websocket-extensions 0.1.5
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1.225 python-ntplib 0.3.3-1_tet.el7
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version 0.3.3 - 2015-07-27
--------------------------
- Change to more permissive MIT license

version 0.3.2 - 2014-02-02
--------------------------
- PEP8 cleanup
- Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
--------------------------
- cleanup
- update FSF address

version 0.3.0 - 2012-09-01
--------------------------
- add a `timeout` parameter to NTPClient.request()
- rewrite tests using the unittest module, add many tests
- cleanup

version 0.2.0 - 2012-04-01
--------------------------
- cleanup
- raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20
--------------------------
- change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24
--------------------------
- cleanup
- fix delay computation (thanks to Michael Frère for pointing that out)

version 0.1.6 - 2009-11-01
--------------------------
- cleanup
- when the server doesn't respond within a reasonable interval, let the application handle socket.timeout

version 0.1.5 - 2009-07-13
--------------------------
- perform stricter source check upon reception of a response
- small cleanup

version 0.1.4 - 2009-06-04
--------------------------
- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18
--------------------------
- fix root delay and root dispersion computation
version 0.1.2 - 2009-05-17
--------------------------
- create request packet after name resolution to avoid name resolution delay

version 0.1.1 - 2009-05-16
--------------------------
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a
  NTPExeption instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request
to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
--------------------------
- initial release

Found in path(s):
* /opt/cola/permits/1135395558_1613513295.66/0/python-ntplib-0-3-3-zip/python-ntplib-0.3.3/CHANGELOG
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Metadata-Version: 1.1
Name: ntplib
Version: 0.3.3
Summary: Python NTP library
Home-page: http://code.google.com/p/ntplib/
Author: Charles-Francois Natali
Author-email: cf.natali@gmail.com
License: MIT
Description:
ntplib - Python NTP library

Description
-----------
ntplib - Python NTP library

Example
-------

>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66

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

As root::

    # python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g. `/usr/lib/python2.5`.

Platform: UNKNOWN
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Operating System :: OS Independent
Classifier: Topic :: System :: Networking :: Time Synchronization

Found in path(s):
* /opt/cola/permits/1135395558_1613513295.66/0/python-ntplib-0-3-3.zip/python-ntplib-0.3.3/PKG-INFO
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from distutils.core import setup

long_description = ""
ntplib - Python NTP library
===========================

Description
----------

This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it's pure Python, and only depends on core modules, it
should work on any platform with a Python implementation.

Example
-------

```python
>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66
```

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

As root:

```
# python setup.py install
```

or just copy ntplib.py inside a directory in your sys.path, e.g.

`/usr/lib/python2.5/`

```python
setup(name='ntplib',
version='0.3.3',
description='Python NTP library',
author='Charles-Francois Natali',
author_email='cf.natali@gmail.com',
url='http://code.google.com/p/ntplib/',
py_modules=['ntplib'],
license='MIT',
classifiers=[
    'License :: OSI Approved :: MIT License',
    'Programming Language :: Python',
    'Operating System :: OS Independent',
    'Topic :: System :: Networking :: Time Synchronization'
)```
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* /opt/cola/permits/1135395558_1613513295.66/0/python-ntplib-0.3.3-zip/python-ntplib-0.3.3/setup.py
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1.226 ansible 1.9.6-7.el7

1.226.1 Available under license:
This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on
Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from https://github.com/ansible/ansible.git

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1.227 configparser 3.5.0-3.ph3

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Metadata-Version: 1.1
Name: configparser
Version: 3.5.0
Summary: This library brings the updated configparser from Python 3.5 to Python 2.6-3.5.
Home-page: http://docs.python.org/3/library/configparser.html
Author: lukasz Langa
Author-email: lukasz@langa.pl
License: MIT
Description: ============
    configparser
    ============

The ancient `ConfigParser` module available in the standard library 2.x has seen a major update in Python 3.2. This is a backport of those changes so that they can be used directly in Python 2.6 - 3.5.

To use the `configparser` backport instead of the built-in version on both Python 2 and Python 3, simply import it explicitly as a backport:

    from backports import configparser

If you'd like to use the backport on Python 2 and the built-in version on Python 3, use that invocation instead:

    import configparser

For detailed documentation consult the vanilla version at http://docs.python.org/3/library/configparser.html.

Why you'll love `configparser`:
-----------------------------

Whereas almost completely compatible with its older brother, `configparser` sports a bunch of interesting new features:

* full mapping protocol access (`more info
 <http://docs.python.org/3/library/configparser.html#mapping-protocol-access>`_):

    >>> parser = ConfigParser()
>>> parser.read_string(""
[DEFAULT]
location = upper left
visible = yes
editable = no
color = blue

[main]
title = Main Menu
color = green

[options]
title = Options
""
>>> parser['main']['color']
'green'
>>> parser['main']['editable']
'no'
>>> section = parser['options']
>>> section['title']
'Options'
>>> section['title'] = 'Options (editable: %(editable)s)'
>>> section['title']
'Options (editable: no)'

* there's now one default `ConfigParser` class, which basically is the old
  `SafeConfigParser` with a bunch of tweaks which make it more predictable for
  users. Don't need interpolation? Simply use
  `ConfigParser(interpolation=None)`, no need to use a distinct
  `RawConfigParser` anymore.

* the parser is highly `customizable upon instantiation`
  `<http://docs.python.org/3/library/configparser.html#customizing-parser-behaviour>`__
supporting things like changing option delimiters, comment characters, the
name of the DEFAULT section, the interpolation syntax, etc.

* you can easily create your own interpolation syntax but there are two powerful
  implementations built-in (`more info
  `<http://docs.python.org/3/library/configparser.html#interpolation-of-values>`__):

  * the classic `%(string-like)s` syntax (called `BasicInterpolation`)
  * a new `${buildout:like}` syntax (called `ExtendedInterpolation`)

  * fallback values may be specified in getters (`more info
    `<http://docs.python.org/3/library/configparser.html#fallback-values>`__):

    >>> config.get('closet', 'monster',
...    fallback=\'No such things as monsters\'
\'No such things as monsters\'

* ``ConfigParser`` objects can now read data directly `from strings`
  <http://docs.python.org/3/library/configparser.html#configparser.ConfigParser.read_string>`__
  and `from dictionaries`
  <http://docs.python.org/3/library/configparser.html#configparser.ConfigParser.read_dict>`__.
  That means importing configuration from JSON or specifying default values for
  the whole configuration (multiple sections) is now a single line of code. Same
  goes for copying data from another ``ConfigParser`` instance, thanks to its
  mapping protocol support.

* many smaller tweaks, updates and fixes

A few words about Unicode
-------------------------

``configparser`` comes from Python 3 and as such it works well with Unicode.
The library is generally cleaned up in terms of internal data storage and
reading/writing files. There are a couple of incompatibilities with the old
``ConfigParser`` due to that. However, the work required to migrate is well
worth it as it shows the issues that would likely come up during migration of
your project to Python 3.

The design assumes that Unicode strings are used whenever possible [1]_. That
gives you the certainty that what's stored in a configuration object is text.
Once your configuration is read, the rest of your application doesn't have to
deal with encoding issues. All you have is text [2]_. The only two phases when
you should explicitly state encoding is when you either read from an external
source (e.g. a file) or write back.

Versioning
----------

This backport is intended to keep 100% compatibility with the vanilla release in
Python 3.2+. To help maintaining a version you want and expect, a versioning
scheme is used where:

* the first two numbers indicate the version of Python 3 from which the
  backport is done

* a backport release number is provided as the final number (zero-indexed)

For example, ``3.5.2`` is the **third** backport release of the
``configparser`` library as seen in Python 3.5. Note that ``3.5.2`` does
**NOT** necessarily mean this backport version is based on the standard library
of Python 3.5.2.
One exception from the 100% compatibility principle is that bugs fixed before releasing another minor Python 3 bugfix version **will be included** in the backport releases done in the mean time.

Maintenance
-----------
This backport is maintained on BitBucket by ukasz Langa, the current vanilla `configparser` maintainer for CPython:

* `configparser Mercurial repository <https://bitbucket.org/ambv/configparser>`_
* `configparser issue tracker <https://bitbucket.org/ambv/configparser/issues>`_

Change Log
----------

3.5.0
~~~~~
* a complete rewrite of the backport; now single codebase working on Python 2.6 - 3.5. To use on Python 3 import `from backports import configparser` instead of the built-in version.
* compatible with 3.5.1

* fixes `BitBucket issue #1` <https://bitbucket.org/ambv/configparser/issue/1>`_: versioning non-compliant with PEP 386

* fixes `BitBucket issue #3` <https://bitbucket.org/ambv/configparser/issue/3>`_: `''reload(sys); sys.setdefaultencoding('utf8')''` in setup.py

* fixes `BitBucket issue #5` <https://bitbucket.org/ambv/configparser/issue/5>`_: Installing the backport on Python 3 breaks virtualenv

* fixes `BitBucket issue #6` <https://bitbucket.org/ambv/configparser/issue/6>`_: PyPy compatibility

3.5.0b2
~~~~~~
* second beta of 3.5.0, not using any third-party futurization libraries

3.5.0b1
~~~~~~
* first beta of 3.5.0, using python-future

* for the full feature list, see `3.5.0`_

3.3.0r2
~~~~~~

* updated the fix for `#16820 <http://bugs.python.org/issue16820>`_: parsers
  now preserve section order when using ``__setitem__`` and ``update``

3.3.0r1
~~~~~~

* compatible with 3.3.0 + fixes for `#15803 <http://bugs.python.org/issue15803>`_ and `#16820 <http://bugs.python.org/issue16820>`_

* fixes `BitBucket issue #4 <https://bitbucket.org/ambv/configparser/issue/4>`_: ``read()`` properly treats a bytestring argument as a filename

* `ordereddict <http://pypi.python.org/pypi/ordereddict>`_ dependency required only for Python 2.6

* `unittest2 <http://pypi.python.org/pypi/unittest2>`_ explicit dependency dropped. If you want to test the release, add `unittest2` on your own.

3.2.0r3
~~~~~~

* proper Python 2.6 support

* explicitly stated the dependency on `ordereddict <http://pypi.python.org/pypi/ordereddict>`_

* numbered all formatting braces in strings

* explicitly says that Python 2.5 support won't happen (too much work necessary without abstract base classes, string formatters, the `io` library, etc.)

* some healthy advertising in the README

3.2.0r2
~~~~~~

* a backport-specific change: for convenience and basic compatibility with the old ConfigParser, bytestrings are now accepted as section names, options and
values. Those strings are still converted to Unicode for internal storage so in any case when such conversion is not possible (using the 'ascii' codec), UnicodeDecodeError is raised.

3.2.0r1
~~~~

* the first public release compatible with 3.2.0 + fixes for `#11324 <http://bugs.python.org/issue11324>`_, `#11670 <http://bugs.python.org/issue11670>`_ and `#11858 <http://bugs.python.org/issue11858>`_.

Conversion Process
------------------

This section is technical and should bother you only if you are wondering how this backport is produced. If the implementation details of this backport are not important for you, feel free to ignore the following content.

``configparser`` is converted using `python-future <http://python-future.org>`_ and free time. Because a fully automatic conversion was not doable, I took the following branching approach:

* the ``3.x`` branch holds unchanged files synchronized from the upstream CPython repository. The synchronization is currently done by manually copying the required files and stating from which CPython changeset they come from.

* the ``default`` branch holds a version of the ``3.x`` code with some tweaks that make it independent from libraries and constructions unavailable on 2.x. Code on this branch still *must* work on the corresponding Python 3.x but will also work on Python 2.6 and 2.7 (including PyPy). You can check this running the supplied unit tests with ``tox``.

The process works like this:

1. I update the ``3.x`` branch with new versions of files. Note that the actual ``configparser.py`` file is now just a proxy for sources held in ``backports/configparser/__init__.py``.

2. I check for new names in ``__all__`` and update imports in ``configparser.py`` accordingly. I run the tests on Python 3. Commit.

3. I merge the new commit to ``default``. I run ``tox``. Commit.

4. If there are necessary changes, I do them now (on ``default``). Note that the changes should be written in the syntax subset supported by Python 2.6.
5. I run `tox`. If it works, I update the docs and release the new version. Otherwise, I go back to point 3. I might use `pasteurize` to suggest me required changes but usually I do them manually to keep resulting code in a nicer form.

Footnotes
---------

.. [1] To somewhat ease migration, passing bytestrings is still supported but they are converted to Unicode for internal storage anyway. This means that for the vast majority of strings used in configuration files, it won't matter if you pass them as bytestrings or Unicode. However, if you pass a bytestring that cannot be converted to Unicode using the naive ASCII codec, a `UnicodeDecodeError` will be raised. This is purposeful and helps you manage proper encoding for all content you store in memory, read from various sources and write back.

.. [2] Life gets much easier when you understand that you basically manage **text** in your application. You don't care about bytes but about letters. In that regard the concept of content encoding is meaningless. The only time when you deal with raw bytes is when you write the data to a file. Then you have to specify how your text should be encoded. On the other end, to get meaningful text from a file, the application reading it has to know which encoding was used during its creation. But once the bytes are read and properly decoded, all you have is text. This is especially powerful when you start interacting with multiple data sources. Even if each of them uses a different encoding, inside your application data is held in abstract text form. You can program your business logic without worrying about which data came from which source. You can freely exchange the data you store between sources. Only reading/writing files requires encoding your text to bytes.

Keywords: configparser ini parsing conf cfg configuration file
Platform: any
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1184754467_1634106353.01/0/python-configparser-3.5.0-3.ph3.src.rpm-cosi-expand-archive-WFjETK8N/configparser-3.5.0.tar.gz-cosi-expand-archive-QsVNqHN/configparser-3.5.0/PKG-INFO
* /opt/cola/permits/1184754467_1634106353.01/0/python-configparser-3.5.0-3.ph3.src.rpm-cosi-expand-archive-WFjETK8N/configparser-3.5.0.tar.gz-cosi-expand-archive-QsVNqHN/configparser-3.5.0/src/configparser.egg-info/PKG-INFO

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* /opt/cola/permits/1184754467_1634106353.01/0/python-configparser-3.5.0-3.ph3.src.rpm-cosi-expand-archive-WFjETK8N/python-configparser.spec

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* /opt/cola/permits/1184754467_1634106353.01/0/python-configparser-3.5.0-3.ph3.src.rpm-cosi-expand-archive-WFjETK8N/configparser-3.5.0.tar.gz-cosi-expand-archive-QsVNqHN/configparser-3.5.0/setup.py

---

1.228 opencensus-api 0.12.3

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 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 * 
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 * 
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 * 
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.
The primary disadvantage of this method is that with a fixed-point
implementation, accuracy is lost due to imprecise representation of the
scaled quantization values. However, that problem does not arise if
we use floating point arithmetic.
*/

/ *
* jversion.h
* 
* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains software version identification.
* /

/ *
* jerror.h
* 
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
* /

/
/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
 * Also, this code will NOT work if struct fields are aligned on greater than
 * 2-byte boundaries.
 *
 * Based on code contributed by Ge' Weijers.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 */
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains upsampling routines.
 *
* Upsampling input data is counted in "row groups".  A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component.  Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
 *
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.h
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
*rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

/*
*jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
*/
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.c
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* 
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* 
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jerror.c
No license file was found, but licenses were detected in source scan.

/ *
* jcinit.c
* 
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* 
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.

/ *
* jpeglib.h
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permissions/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permissions/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
* jaricom.c
*
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* 
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permissions/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c

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

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c

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

/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 */
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

/ *
* jdapistd.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/ *
* jcsample.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains downsampling routines.
* 
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
* 
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
* * Digital Image Warping, George Wolberg, 1990.
* *
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
***********************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,
* this code has been modified to output "uncompressed GIF" files.
* There is no trace of the LZW algorithm in this file.

***********************************************************************

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
 */

/*
 * This code is loosely based on ppmtogif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODER by David Rowley <mgardi@watdscu.waterloo.edu>
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 *
 * We are also required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/ *
* ckconfig.c
 *
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.

/ *
* jcprepct.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

_thumb
*/
* Block comments in this style.
*/

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt

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

/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
This file contains 2-pass color quantization (color mapping) routines.
These routines provide selection of a custom color map for an image,
followed by mapping of the image to that color map, with optional
Floyd-Steinberg dithering.
It is also possible to use just the second pass to map to an arbitrary
externally-given color map.

Note: ordered dithering is not supported, since there isn't any fast
way to compute intercolor distances; it's unclear that ordered dither's
fundamental assumptions even hold with an irregularly spaced color map.

*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
This code selects a particular IDCT implementation to be used, and it performs related housekeeping chores. No code in this file is executed per IDCT step, only during output pass setup.

Note that the IDCT routines are responsible for performing coefficient dequantization as well as the IDCT proper. This module sets up the dequantization multiplier table needed by the IDCT routine.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c

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

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c

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

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

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

/*
* jdarith.c
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains portable arithmetic entropy decoding routines for JPEG

Both sequential and progressive modes are supported in this single module.
Suspension is not currently supported in this module.

Found in path(s):
/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c

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

/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c

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

USING THE IJG JPEG LIBRARY
This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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Progressive JPEG support
Buffered-image mode
Abbreviated datastreams and multiple images
Special markers
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Progress monitoring
Memory management
You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
---------------------

Data formats
----------

Before diving into procedural details, it is helpful to understand the
image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each
pixel having the same number of "component" or "sample" values (color
channels). You must specify how many components there are and the colorspace
interpretation of the components. Most applications will use RGB data
(three components per pixel) or grayscale data (one component per pixel).
PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.
A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE.
(ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.
If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection"
section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3;/* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.
Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)."

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.
Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don’t forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you’ll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won’t. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);
8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)
2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.

* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.
After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width`: image width and height, as scaled
- `output_height`
- `out_color_components`: # of color components in `out_color_space`
- `output_components`: # of color components returned per pixel
- `colormap`: the selected colormap, if any
- `actual_number_of_colors`: # of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)

   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the `output_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.

The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);

You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.
It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change
just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`
Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

`int jpeg_quality_scaling (int quality)`
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)`
Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)`
Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is TRUE). CAUTION: prior to library version 6a, `jpeg_add_quant_table` expected the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this routine, you must check the library version number. Something like 
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above). (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9). Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN. Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

```
JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
```
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```
int q_scale_factor[NUM_QUANT_TBLS]
```
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage.

```
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:
```

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
```

```
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

```
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
```
```
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
```
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

- **JDIMENSION image_width**: Width and height of image
- **JDIMENSION image_height**: Number of color components
- **J_COLOR_SPACE jpeg_color_space**: Colorspace of image
- **boolean saw_JFIF_marker**: TRUE if a JFIF APP0 marker was seen
- **UINT8 JFIF_major_version**: Version information from JFIF marker
- **UINT8 JFIF_minor_version**: Resolution data from JFIF marker
- **UINT8 density_unit**: Resolution data from JFIF marker
- **UINT16 X_density**: TRUE if an Adobe APP14 marker was seen
- **UINT16 Y_density**: Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- **J_COLOR_SPACE out_color_space**: Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

- **unsigned int scale_num, scale_denom**: Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where
N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
J_DITHER_NONE no dithering: fast, very low quality
J_DITHER_ORDERED ordered dither: moderate speed and quality
J_DITHER_FS Floyd-Steinberg dither: slow, high quality
Default is J_DITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map
index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
(An output buffer larger than rec_outbuf_height lines is OK, but won't
provide any material speed improvement over that height.)

Special color spaces

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

The JPEG standard itself is "color blind" and doesn't specify any particular
color space. It is customary to convert color data to a luminance/chrominance
color space before compressing, since this permits greater compression. The
existing JPEG file interchange format standards specify YCbCr or GRAYSCALE
data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB
or BG_YCC (big gamut color spaces, JFIF version 2). For special applications
such as multispectral images, other color spaces can be used,
but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely
RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown
color space, passing it through without conversion. If you deal extensively
with an unusual color space, you can easily extend the library to understand
additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given
by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color
space depending on in_color_space, but you can override this by calling
jpeg_set_colorspace(). Of course you must select a supported transformation.
jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure
that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit
the APPn markers properly, so long as it is told the truth about the JPEG
color space. For example, if you are writing some random 3-component color
space without conversion, don't try to fake out the library by setting
in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.

You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.

jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.
CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error 
handler. The most convenient way to do this is to embed either the JPEG 
object or the jpeg_error_mgr struct in a larger structure that contains 
additional fields; then casting the passed pointer provides access to the 
additional fields. Again, see example.c for one way to do it. (Beginning 
with IJG version 6b, there is also a void pointer "client_data" in each 
JPEG object, which the application can also use to find related data. 
The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to 
generate the error message has been stored in cinfo->err; call 
output_message to display it. Control must NOT return to the caller; 
generally this routine will exit() or longjmp() somewhere. 
Typically you would override this routine to get rid of the exit() 
default behavior. Note that if you continue processing, you should 
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages 
somewhere other than stderr. Note that this method does not know 
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info 
stored in cinfo->err. This method is called by output_message. Few 
applications should need to override this method. One possible 
reason for doing so is to implement dynamic switching of error message 
language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, 
calls output_message. The main reason for overriding this method 
would be to abort on warnings. msg_level is -1 for warnings, 
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG 
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to 
by the field err->jpeg_message_table. The messages are numbered from 0 to 
err->last_jpeg_message, and it is these code numbers that are used in the 
JPEG library code. You could replace the message texts (for instance, with 
messages in French or German) by changing the message table pointer. See 
jerror.h for the default texts. CAUTION: this table will almost certainly 
change or grow from one library version to the next.
It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second “add-on” message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cerror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-----------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;       /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

`init_destination (j_compress_ptr cinfo)`
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some additional frammisses. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```c
const OCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

- `init_source (j_decompress_ptr cinfo)`
  Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

- `fill_input_buffer (j_decompress_ptr cinfo)`
  This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

- `skip_input_data (j_decompress_ptr cinfo, long num_bytes)`
  Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

- `resync_to_restart (j_decompress_ptr cinfo, int desired)`
  This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

```c
static jpeg_source_mgr term_source (j_decompress_ptr cinfo)
```

Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

```c
term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.
```

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement
To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted.

The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the
output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE.
If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

**Progressive JPEG support**

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans.

Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between
displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.)

When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can
display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what’s needed to produce output. This is done by calling the routine jpeg_consume_input().

The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library’s output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library’s input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it’s best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass

 corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(); call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library's output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.

Thus, input processing can "get ahead" of the output processing but is not
allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will
wait until that scan starts to arrive before producing any output. (To avoid
an infinite loop, the target scan number is automatically reset to the last
scan number when the end of image is reached. Thus, if you specify a large
target scan number, the library will just absorb the entire input file and
then perform an output pass. This is effectively the same as what
jpeg_start_decompress() does when you don't select buffered-image mode.)
When you pass a target scan number equal to the current input scan number,
the image is displayed no faster than the current input scan arrives. The
final possibility is to pass a target scan number less than the current input
scan number; this disables the input/output interlock and causes the output
processor to simply display whatever it finds in the image buffer, without
waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance
through the image, jpeg_consume_input() will store data into the buffered
image beyond the point at which the output processing is reading data out
again. If the input arrives fast enough, it may "wrap around" the buffer to
the point where the input is more than one whole scan ahead of the output.
If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower
part of the image is one or more scans better in quality than the upper part.

Then, when the next output scan is started, you have a choice of what target
scan number to use. The recommended choice is to use the current input scan
number at that time, which implies that you've skipped the output scans
corresponding to the input scans that were completed while you processed
the previous output scan. In this way, the decoder automatically adapts its
speed to the arriving data, by skipping output scans as necessary to keep up
with the arriving data.

When using this strategy, you'll want to be sure that you perform a final
output pass after receiving all the data; otherwise your last display may not
be full quality across the whole screen. So the right outer loop logic is
something like this:
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) 
In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process
might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.
When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount
of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:
- enable_1pass_quantFixed color cube colormap
- enable_external_quantExternally-supplied colormap
- enable_2pass_quantTwo-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

   NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

   (These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it’s a bit klugy, but it’s necessary to do it this way for backwards compatibility.)

   Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

   When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

   Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

   It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It’s best to use the memory manager jmemnobs.c if you can (i.e., if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will
probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven’t gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.
It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++)
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++)
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
for (i = 0; i < 256; i++)
```

/* symbols[] is the list of Huffman symbols, in code-length order */
huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
contant JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.) When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't
flush the output buffer at term_destination() time. This would speed things
up by some trifling amount. Of course, you’d need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It’s probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don’t recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don’t recommend writing any other kinds of marker.)
For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

```
jpeg_save_markers(cinfo, marker_code, length_limit)
```
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature

    boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been
read from the data source module. The processor routine is responsible for
If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a
multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downscaled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

cinfo->comp_info[i].width_in_blocks*block_size  samples per row

cinfo->comp_info[i].height_in_blocks*block_size rows in image after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb

cinfo->comp_info[1].v_samp_factor = 1

cinfo->comp_info[2].h_samp_factor = 1 for Cr

cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downscaled_width = 101 and width_in_blocks = 13 for Y, downscaled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downscaled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().
To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* `jpeg_write_coefficients()`
* `jpeg_finish_compress()`
* Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual sent_table flags, between calling `jpeg_write_coefficients()` and `jpeg_finish_compress()`.

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

   total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.

Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files” may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires
6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a
128K color lookup table and a full-image pixel buffer (3 bytes/pixel).
This does not count any memory allocated by the application, such as a
buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with
32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip
buffers and quantization pixel buffer. The “fixed-size” data will be
somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK
or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not
have to be fully RAM resident; you can have the library use temporary
files instead when the total memory usage would exceed a limit you set.
(But if your OS supports virtual memory, it's probably better to just use
jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need
for color quantization. Also, it needs a full-image DCT coefficient buffer
if Huffman-table optimization is asked for, even if progressive mode is not
requested.

If you need more detailed information about memory usage in a particular
situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by
defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.
Note that a value larger than 8 causes JSAMPLE to be larger than a char,
so it affects the surrounding application's image data.
The sample applications cjpeg and djpeg can support deeper than 8-bit data
only for PPM and GIF file formats; you must disable the other file formats
to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more
information about that.)
Run-time selection and conversion of data precision are currently not
supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a
single instance, since it operates on the level of DCT coefficients and
not sample values.
(If you need to include an 8-bit library and a 9-bit to 12-bit library for
compression or decompression in a single application, you could probably do
it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd
have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)
The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------
The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size.

There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar.gz/jpeg-9c/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/transupp.c

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

/*
* jdhuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c

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

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the compression half
  * of the JPEG library. These are the "standard" API routines that are
  * used in the normal full-compression case. They are not used by a
  * transcoding-only application. Note that if an application links in
  * jpeg_start_compress, it will end up linking in the entire compressor.
  * We thus must separate this file from jcapimin.c to avoid linking the
  * whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file Read quantization tables from text file
 * -scans file Read scan script from text file
 * -quality N,N,... Set quality ratings
 * -qslots N,N,... Set component quantization table selectors
 * -sample HxV,HxV,... Set component sampling factors
 */
/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
*/
**Permission to use, copy, modify, and distribute this software and its**
**documentation for any purpose and without fee is hereby granted, provided**
**that the above copyright notice appear in all copies and that both that**
**copyright notice and this permission notice appear in supporting**
**documentation. This software is provided "as is" without express or**
**implied warranty. */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c

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

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c

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

/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/
* jcoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2002-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.
If you are on a Unix machine, you may not need to read this file at all. Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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Configuring the software:
using the automatic "configure" script
using one of the supplied jconfig and makefile files
by hand
Building the software
Testing the software
Installing the software
Optional stuff
Optimization
Hints for specific systems

BEFORE YOU START

Before installing the software you must unpack the distributed source code.
Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

==================================
To configure the JG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines;
  if your machine matches one of the samples, just copy the right sample
  files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
.

./configure

and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type

sh configure

instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  ./configure --disable-shared
  If you want to build libjpeg only as a shared library, say
  ./configure --disable-static
  Configure uses GNU libtool to take care of system-dependent shared library
  building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  ./configure CC='cc'
  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  ./configure CC='cc -Aa'
  to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
/* configure CFLAGS=\'-O2\' * 
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option 
"--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
----------------------------------------------------------------------------
If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows, MS Visual C++
makefile.vs jconfig.vs Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs jconfig.vs Windows, Visual Studio 2017 (v15)
make*.v15
makefile.bcc jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.
Configuring the software by hand
-------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are makefile.ansi: if your C compiler supports function prototypes makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
------------------
These programs can use a Unix-like command line style which supports redirection and piping, like this:

cjpeg inputfile >outputfile

cjpeg <inputfile >outputfile

source program | cjpeg >outputfile

The simpler "two file" command line style is just:

cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
----------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the
programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.
If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions.
You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile).
This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=======================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters;
some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
====================

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this
check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============
Progress monitor:

If you like, you can define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L..., -lrlc to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librlc.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.
To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample,
MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't...
The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.
HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljjpeg.st
to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading 
#pragma novector just before the loop
  for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:
If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or `-Ae` if you prefer). If configuring by hand, use makefile.ansi and add `-Aa` to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add `-Aa`); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)

NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of
malloc/free. (For instance, free() may not return the freed space to the
Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c
already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND.
You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout.
This means that when using the cjpeg/djpeg programs, you'll have to type the
input and output file names in the "Arguments" text-edit box, rather than
using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would
eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended
float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power
of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h;
it includes all the recommended symbol definitions. If you have AppleScript
installed, you can run the supplied script makeproj.mac to create CodeWarrior
project files for the library and the testbed applications, then build the
library and applications. (Thanks to Dan Sears and Don Agro for this nifty
hack, which saves us from trying to maintain CodeWarrior project files as part
of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above)
includes detailed build instructions for Think C; it's probably somewhat
out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows.
You'll have to prepare project files for the programs; we don't include any
in the distribution since they are not text files. Use the file lists in
any of the supplied makefiles as a guide. Also add the ANSI and Unix C
libraries in a separate segment. You may need to divide the JPEG files into
more than one segment; we recommend dividing compression and decompression
modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is
called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout
don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float.
jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2.
Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C,
but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.
Most MS-DOS compilers treat stdin/stdout as text files, so you must use
two-file command line style. But if your compiler has either fdopen() or
setmode(), you can use one-file style if you like. To do this, define
USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode.
(USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You
should test that I/O through stdin/stdout produces the same results as I/O
to explicitly named files... the "make test" procedures in the supplied
makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a
32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you
should use one if you have it, as performance will be much better than
8086-compatible code!) For flat-memory-space compilers, do NOT define
NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the
environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines).
Although Borland C will often work OK with unmodified Unix (LF newlines)
source files, sometimes it will give bogus compile errors.
"Illegal character '#'" is the most common such error. (This is true with
Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.bcc already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only
be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called
"makefile". If you want to call it something else, say "makefile.mak",
be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */

(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h
includes). To suppress the warning, you can put "ifndef FAR"/
"endif" around the line "define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly
want to modify or replace the error handler module jerror.c, since our
default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere.  (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error.  This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c.  (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows.  You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed.  You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model.  (See the MS-DOS
sections above for more info about memory models.)  In the 16-bit memory
models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb.  (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory.  In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file
operations rather than fread/fwrite.  This is only necessary if your C
compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_XXX macros in jmorecfg.h so that the library
will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```c
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```c
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}
```

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

- `-Ot -Og`
- `-Ot -Op`
- `-Ot -Om`

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" […] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match).

In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample
To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.
OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying

`./configure RANLIB='ar -ts'`

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/install.txt

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

/*
 * jcdctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
*/
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c

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

/*
 * jdmerge.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jsample.c and jcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 * \[
 * R = Y + K1 \times Cr \\
 * G = Y + K2 \times Cb + K3 \times Cr \\
 * B = Y + K4 \times Cb 
 * \]
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 *
 * This file currently provides implementations for the following cases:
 * YCC => RGB color conversion only (YCbCr or BG_YCC).
 * Sampling ratios of 2h1v or 2h2v.
 * No scaling needed at upsample time.
 * Corner-aligned (non-CCIR601) sampling alignment.
 * Other special cases could be added, but in most applications these are
 * the only common cases. (For uncommon cases we fall back on the more
 * general code in jsample.c and jcolor.c.)
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr instead of malloc and free. It accurately determines the amount of memory available by using CompactMem. Notice that if left to its own devices, this code can chew up all available space in the application's zone, with the exception of the rather small "slop" factor computed in jpeg_mem_available(). The application can ensure that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s temporary folder functionality.
 *
 * Note that jmemmac.c depends on two features of MacOS that were first introduced in System 7: FindFolder and the FSSpec-based calls.
 * If your application uses jmemmac.c and is run under System 6 or earlier, and the jpeg library decides it needs a temporary file, it will abort, printing error messages about requiring System 7. (If no temporary files are created, it will run fine.)
 *
 * If you want to use jmemmac.c in an application that might be used with System 6 or earlier, then you should remove dependencies on FindFolder and the FSSpec calls. You will need to replace FindFolder with some other mechanism for finding a place to put temporary files, and you should replace the FSSpec calls with their HFS equivalents:
 *
 * FSpDelete -> HDelete
 * FSpGetFInfo -> HGetFInfo
 * FSpCreate -> HCreate
 * FSpOpenDF -> HOpen *** Note: not HOpenDF ***
 * FSMakeFSSpec -> (fill in spec by hand.)
 *
 * (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen, which is on all HFS macs. HOpenDF is a System 7 addition which avoids the ages-old problem of names starting with a period.)
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downscaled data in the JPEG colorspace.
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
* wrrle.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmempmgr.c;
* there are several different versions of the system-dependent portion.)
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
This file contains a slow-but-accurate integer implementation of the forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on an algorithm described in
The primary algorithm described there uses 11 multiplies and 29 adds.
We use their alternate method with 12 multiplies and 32 adds.
The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

We also provide FDCT routines with various input sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: NxN (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
For N<8 we fill the remaining block coefficients with zero.
For N>8 we apply a partial N-point FDCT on the input samples, computing just the lower 8 frequency coefficients and discarding the rest.

We must scale the output coefficients of the N-point FDCT appropriately to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling is folded into the constant multipliers (pass 2) and/or final/initial shifting.

CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.

Found in path(s):
/opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c

No license file was found, but licenses were detected in source scan.
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
* /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 * /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemansi.c
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a simple generic implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that you have the ANSI-standard library routine tmpfile().
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.

/*
 * wrjgpcm.c
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jcparam.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
* jcarith.c
*
* Developed 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains portable arithmetic entropy encoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided “as is” without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c

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

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 * /
 #define HAVE_PROTOTYPES
/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#define void char

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
#define const

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS
/* Define this if your linker needs global names to be unique in less * than the first 15 characters. */
#define NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI * and pseudo-ANSI compilers get confused. To keep one of these bozos happy, * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you * actually get "missing structure definition" warnings or errors while * compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE	/* in case these macros already exist */
#define FALSE	0	/* values of boolean */
#endif
#ifndef TRUE
#define TRUE	1
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library, * but they don't need to be visible to applications using the library. * To minimize application namespace pollution, the symbols won't be * defined unless JPEG_INTERNALS has been defined. */
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift, * which is the normal and rational definition. */
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */
/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm

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

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/wrbmp.c

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

/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

**IJK JPEG LIBRARY: SYSTEM ARCHITECTURE**

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJK JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJK distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
  command-line user interface and I/O routines for several uncompressed image
  formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines,
and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed data stream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef `JOCTET`. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen `JOCTET` datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.
For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.
*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.
   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
            |       |       |
            ----------- controller  ------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can
be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control
  module and its pair of processing-step modules with a single processing-
  step module. (Hence the possible merges are determined by the tree of
  control modules.)
* In some processing modes, a given interstep buffer need only be a "strip"
  buffer large enough to accommodate the desired data chunk sizes. In other
  modes, a full-image buffer is needed and several passes are required.
  The control module determines which kind of buffer is used and manipulates
  virtual array buffers as needed. One or both processing steps may be
  unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers
interchangeable and provide just one set of implementations for all. In
practice, each one contains considerable special-case processing for its
particular job. The buffer controller concept should be regarded as an
overall system structuring principle, not as a complete description of the
task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

    |-- Colorspace conversion
    |-- Preprocessing controller --|
        |-- Downsampling
Main controller --|
        | |-- Forward DCT, quantize
        |-- Coefficient controller --|
            |-- Entropy encoding

This sketch also describes the flow of control (subroutine calls) during
typical image data processing. Each of the components shown in the diagram is
an "object" which may have several different implementations available. One
or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which
  holds the preprocessed input data. This controller invokes preprocessing to
  fill the subsampled-data buffer, and JPEG compression to empty it. There is
  usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data
  buffer, which lies between colorspace conversion and downsampling. Note
  that a unified conversion/downsampling module would probably replace this
  controller entirely.
* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
    |-- Coefficient controller --|-- Dequantize, Inverse DCT
    |                            |
Main controller --|-- UPSampling
    |                           |-- Postprocessing controller --|-- Colorspace conversion
    |                                |-- Color quantization
    |                                |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this
is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will
always be a single component representing colormap indexes. In the current
design, the output values are JSAMPLEs, so an 8-bit compilation cannot
quantize to more than 256 colors. This is unlikely to be a problem in
practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with
colorspace conversion???

Note that some high-speed operating modes might condense the entire
postprocessing sequence to a single module (upsample, color convert, and
quantize in one step).

In addition to the above objects, the decompression library includes these
objects:

* Master control: determines the number of passes required, controls overall
and per-pass initialization of the other modules. This is subdivided into
input and output control: jdinput.c controls only input-side processing,
while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source
manager supplied with the library knows how to read from a stdio stream
or from a memory buffer; for other behaviors, the surrounding application
may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
coefficient controller's DCT coefficient buffer. Note that this
processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF;  // a 16-bit signed integer  
typedef JCOEF JBLOCK[DCTSIZE2];  // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;  // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY;  // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE;  // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
"8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged
order, and may be true values or divided by the quantization coefficients,
depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept in natural order everywhere; the entropy
codes zig or dezigzag the data as it is written or read. The blocks
contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable
quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks,
corresponding to block_size rows of samples. Otherwise the structure
is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKS, or a picture width of
4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW)
must be declared as "far" pointers, but the upper levels can be "near"
(implying that the pointer lists are allocated in the DS segment).
We use a #define symbol FAR, which expands to the "far" keyword when
compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***
In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to improved performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it
would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on
   image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers,
     small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by
   type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs
   (typically large enough for the entire image being processed). The
   memory manager provides stripwise access to these arrays. On machines
   without virtual memory, the rest of the array may be swapped out to a
   temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large
objects for the data proper and small objects for the row pointers. For
convenience and speed, the memory manager provides single routines to create
these structures. Similarly, virtual arrays include a small control block
and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image
lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is
not very useful since a virtual array's raison d'etre is to store data for
multiple passes through the image.) We also expect that only "small" objects
will be given permanent lifespan, though this restriction is not required by
the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by
making the in-memory buffers for virtual arrays be as large as possible.
(For small images, the buffers might fit entirely in memory, so blind
swapping would be very wasteful.) The memory manager will adjust the height
of the buffers to fit within a prespecified maximum memory usage. In order
to do this in a reasonably optimal fashion, the manager needs to allocate all
of the virtual arrays at once. Therefore, there isn't a one-step allocation
routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan)
   during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
   allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup. The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc/free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines; else usually the same as
- jpeg_get_small/jpeg_free_small
On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a
mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/structure.txt

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

/*
 * jmorecfg.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djjpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
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Include files:

jpeglib.hJPEG library's exported data and function declarations.
jconfig.hConfiguration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.hAdditional configuration declarations; need not be changed
for a standard installation.

jerror.h Declares JPEG library's error and trace message codes.
jincludenh Central include file used by all IJG .c files to reference
system include files.
jpeginth JPEG library's internal data structures.
jdctenth Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The
other include files are intended for internal use and would not normally
be included by an application program. (cjjpeg/djpeg/etc do use jincludenh,
since its function is to improve portability of the whole IJG distribution.
Most other applications will directly include the system include files they
want, and hence won't need jincludenh.)

C source code files:

These files contain most of the functions intended to be called directly by
an application program:

jcapiimin.c Application program interface: core routines for compression.
jcapiistd.c Application program interface: standard compression.
jdapiimin.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression
and decompression.
jparam.c Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmaintct.c Main buffer controller (preprocessor => JPEG compressor).
jcprepct.c Preprocessor buffer controller.
jcoeffct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jcsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c: Arithmetic entropy coding.
jcmarker.c: JPEG marker writing.
jdatadst.c: Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c: Master control: determines which other modules to use.
jdinput.c: Input controller: controls input processing modules.
jdmainct.c: Main buffer controller (JPEG decompressor => postprocessor).
jdcoeftct.c: Buffer controller for DCT coefficient buffer.
jdpostct.c: Postprocessor buffer controller.
jdmaker.c: JPEG marker reading.
jdhuff.c: Huffman entropy decoding.
jdarih.c: Arithmetic entropy decoding.
jdctmgr.c: DCT manager (IDCT implementation selection & control).
jdctint.c: Inverse DCT using slow-but-accurate integer method.
jdctfst.c: Inverse DCT using faster, less accurate integer method.
jdctflt.c: Inverse DCT using floating-point arithmetic.
jdsample.c: Upsampling.
jdcolor.c: Color space conversion.
jdmerge.c: Merged upsampling/color conversion (faster, lower quality).
jqquant1.c: One-pass color quantization using a fixed-spacing colormap.
jqquant2.c: Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c: Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c: Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c: Standard error handling routines (application replaceable).
jmemmgr.c: System-independent (more or less) memory management code.
jutils.c: Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmennobs.c: "No backing store": assumes adequate virtual memory exists.
jmemansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special
system-dependent memory manager.

Non-C source code files:

jmemdos.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cerror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cjpeg.c Utility routines used by all three programs.
rdbmp.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdfgif.c GIF file input (now just a stub).
rddppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdrtarga.c Targa file input.

Image file writer modules for djpeg:

wrdbmp.c BMP file output.
wrdfgif.c GIF file output (a mere shadow of its former self).
wrddppm.c PPM/PGM file output.
wrdrle.c Utah RLE file output.
wrdrtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

====================
C source code files:

rdjpgcom.c	Stand-alone rdjpgcom application.
wrjpgcom.c	Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
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Documentation (see README for a guide to the documentation files):

README	Master documentation file.
*.txt	Other documentation files.
*.1	Documentation in Unix man page format.
change.log	Version-to-version change highlights.
example.c	Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure	Unix shell script to perform automatic configuration.
configure.ac	Source file for use with Autoconf to generate configure.
ltmain.sh	Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh	Install shell script for those Unix systems lacking one.
Makefile.in	Makefile input for configure.
Makefile.am	Source file for use with Automake to generate Makefile.in.
ckconfig.c	Program to generate jconfig.h on non-Unix systems.
jconfig.txt	Template for making jconfig.h by hand.
mak*
*jconfig.*
*Sample makefiles for particular systems.
*Sample jconfig.h for particular systems.
libjpeg.map	Script to generate shared library with versioned symbols.
libjpeg.pc.in	pkg-config file input for configure.
aclocal.m4	M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*
*Source and comparison files for confidence test.
These are binary image files, NOT text files.
/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/transupp.h

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

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcmainct.c

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

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
* We do not support output suspension for the progressive JPEG mode, since
  * the library currently does not allow multiple-scan files to be written
  * with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jctrans.c
 *
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
* /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
=============================================

README for release 9c of 14-Jan-2018
=====================================

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.txt  How to use the JPEG library in your own programs.
example.c  Sample code for calling the JPEG library.
structure.txt  Overview of the JPEG library's internal structure.
filelist.txt  Road map of IJG files.
coderules.txt  Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

We welcome the use of this software as a component of commercial products.
No royalty is required, but we do ask for an acknowledgement in product
documentation, as described under LEGAL ISSUES.

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

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   program, you must acknowledge somewhere in your documentation that
   you've used the IJG code.

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must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

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

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

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

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

including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc9c.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to
fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the iijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name “OpenJPEG” promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.
There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent. The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations. IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was. The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable. IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...
Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/
* j dct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (j dctmgr.c, j dctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/j dct.h
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/
* j datadst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/j datadst.c
No license file was found, but licenses were detected in source scan.

/*
* cderror.h

* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h
No license file was found, but licenses were detected in source scan.

/*

* jdmarker.c

* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c

1.242  iproute 5.6.0-r0
1.242.1 Available under license :

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Version 2, June 1991

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1.243 libjpeg 9b
1.243.1 Available under license:

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/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for
 * direct resolution reduction or enlargement without additional resampling:
 * NxN (N=1...16) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of
 * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
 * to yield the downscaled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain
 * point of view rather than the usual spatial domain point of view,
 * yielding significant computational savings and results at least
 * as good as common bilinear (averaging) spatial downsampling.
 *
 * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
 * lower frequencies and higher frequencies assumed to be zero.
 * It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

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/*
* jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
*/

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/*
* jquant2.c
*
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* Modifications:
* Copyright (C) 2009, D. R. Commander.
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* 
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* 
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaR/;libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/;libjpeg-turbo-1.2.90/jquant2.c
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IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/ *
* Block comments in this style.
*/

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_Word_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:
1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_.", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpege.c and djpege.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/coderules.txt

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/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * pool-based allocation and freeing of memory;
 * policy decisions about how to divide available memory among the
* virtual arrays;
* * control logic for swapping virtual arrays between main memory and
* * hacking storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jmemmgr.c
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/*
* jsimd_x86_64.c
* *
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
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/*
* jfdctflt.c
* *
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* *
* This implementation should be more accurate than either of the integer *
* DCT implementations. However, it may not give the same results on all *
* machines because of differences in roundoff behavior. Speed will depend *
* on the hardware's floating point capacity. *
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT *
* on each column. Direct algorithms are also available, but they are *
* much more complex and seem not to be any faster when reduced to code. *
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for *
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in *
* Japanese, but the algorithm is described in the Pennebaker & Mitchell *
* JPEG textbook (see REFERENCES section in file README). The following code *
* is based directly on figure 4-8 in P&M. *
* While an 8-point DCT cannot be done in less than 11 multiplies, it is *
* possible to arrange the computation so that many of the multiplies are *
* simple scalings of the final outputs. These multiplies can then be *
* folded into the multiplications or divisions by the JPEG quantization *
* table entries. The AA&N method leaves only 5 multiplies and 29 adds *
* to be done in the DCT itself. *
* The primary disadvantage of this method is that with a fixed-point *
* implementation, accuracy is lost due to imprecise representation of the *
* scaled quantization values. However, that problem does not arise if *
* we use floating point arithmetic. *
*/

Found in path(s):

* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive- *
  UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAqj/libjpeg-turbo-1.2.90/jfdctflt.c

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/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMLPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdppm.c
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/*
* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
  * /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
    UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jpegtran.c
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TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native
Interface wrapper, which allows the library to be loaded and used directly from
Java applications. The Java front end for this is defined in several classes
located under org/libjpegturbo/turbojpeg. The source code for these Java
classes is licensed under a BSD-style license, so the files can be incorporated
directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * */
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jmemsys.h
No license file was found, but licenses were detected in source scan.

/**
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/**
* jcdctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*/
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
*
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
*
* 1x1 is trivial: just take the DC coefficient divided by 8.
*
* See jidctint.c for additional comments.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/*
* cerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/cerror.h
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/
* jdatadst.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

*/
* jcmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; warranty. In no event will the authors be held liable for any damages
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;
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; freely, subject to the following restrictions:
;
; 1. The origin of this software must not be misrepresented; you must not
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;    in a product, an acknowledgment in the product documentation would be
;    appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
;    misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

; ================================================================================
; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT    .text  align=16
%define SEG_CONST   .rdata align=16
%else
%define SEG_TEXT    .text  align=16 public use32 class=CODE
%define SEG_CONST   .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT    .text  align=16
%define SEG_CONST   .rdata align=16
%endif
%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA
%endif

%elifdef ELF; ----(nasm -felf[64] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name; foo() -> foo

%elifdef AOUT; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -faoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ..)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------------------

; ==================================================================
; --------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER qword ; general pointer type
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER dword ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT dword ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
\%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
\%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)\*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
\%define XMMWORD ; int128 (SSE register)
\%define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
\%define XMMWORD_BIT OWORD_BIT ; sizeof(XMMWORD)\*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
\%define XMM_DWORD
\%define XMM_MMWORD

\%define SIZEOF_BYTE 1 ; sizeof(BYTE)
\%define SIZEOF_WORD 2 ; sizeof(WORD)
\%define SIZEOF_DWORD 4 ; sizeof(DWORD)
\%define SIZEOF_QWORD 8 ; sizeof(QWORD)
\%define SIZEOF_OWORD 16 ; sizeof(OWORD)

\%define BYTE_BIT 8 ; CHAR_BIT in C
\%define WORD_BIT 16 ; sizeof(WORD)\*BYTE_BIT
\%define DWORD_BIT 32 ; sizeof(DWORD)\*BYTE_BIT
\%define QWORD_BIT 64 ; sizeof(QWORD)\*BYTE_BIT
\%define OWORD_BIT 128 ; sizeof(OWORD)\*BYTE_BIT

; --------------------------------------------------------------------------
;  External Symbol Name
;
\%ifndef EXTN
\%define EXTN(name) _ %+ name	; foo() -> _foo
\%endif

; --------------------------------------------------------------------------
;  Macros for position-independent code (PIC) support
;
\%ifndef GOT_SYMBOL
\%undef PIC
\%endif

\%ifdef PIC ;-------------------------------------------
\%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -------------------

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG CONST
cost_base:
%define GOTOFF(got, sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx register.
call%geteip
addecx, byte (%ref - $)
jmpshort %adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
pushebp
xorebp, ebp; ebp = 0
%ifidni %1, ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%ref)
%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%ref)
%ref:
mov %1, ecx
%endif ; (%1 == ebx)
pop ebp
%endmacro

%else ; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got, sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL
call%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %done
%geteip:
mov%1, POINTER [esp]
ret
%done:
%endmacro

%endif ; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC -------------------------------
%define GOTOFF(got,sym) (sym)
%imacro get_GOT	1.nolist
%endmacro
%imacro pushpic	1.nolist
%endmacro
%imacro poppic	1.nolist
%endmacro
%imacro movpic	2.nolist
%endmacro
%endif; PIC -------------------------------

; Align the next instruction on {2,4,8,16...,} byte boundary.
; ";.balign n,,m" in GNU as
; 
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))
%imacro alignx 1-2.nolist 0xFFFF
%%bs:	times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
   db 0x90                               ; nop
   times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
   db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
   times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
   db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
   times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
   db 0x8D,0xAD,0x00,0x00,0x00      ; lea ebp,[ebp+0x00000000]
   times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
   db 0x8D,0x6C,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
   times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
   db 0x8D,0x6D,0x00,0x00,0x00,0x00      ; lea ebp,[ebp+0x00000000]
   times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
   db 0x8B,0xED                          ; mov ebp,ebp
   times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
   db 0x90                               ; nop
; Align the next data on \{2,4,8,16,...\}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add    rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add    rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif
%endif

; --------------------------------------------------------------------------
;  Defines picked up from the C headers
;
%include "jsimcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/ *
* jdmerge.c
*

* This file was part of the Independent JPEG Group's software:
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* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
This file contains code for merged upsampling/color conversion.

This file combines functions from jdsample.c and jdcolor.c;
read those files first to understand what's going on.

When the chroma components are to be upsampled by simple replication
(i.e., box filtering), we can save some work in color conversion by
calculating all the output pixels corresponding to a pair of chroma
samples at one time. In the conversion equations

\[
\begin{align*}
R &= Y + K1 \times Cr \\
G &= Y + K2 \times Cb + K3 \times Cr \\
B &= Y + K4 \times Cb
\end{align*}
\]

only the Y term varies among the group of pixels corresponding to a pair
of chroma samples, so the rest of the terms can be calculated just once.
At typical sampling ratios, this eliminates half or three-quarters of the
multiplications needed for color conversion.

This file currently provides implementations for the following cases:
YCbCr -> RGB color conversion only.
Sampling ratios of 2h1v or 2h2v.
No scaling needed at upsample time.
Corner-aligned (non-CCIR601) sampling alignment.
Other special cases could be added, but in most applications these are
the only common cases. (For uncommon cases we fall back on the more
general code in jdsample.c and jdcolor.c.)

This file defines the error and message codes for the JPEG library.
Edit this file to add new codes, or to translate the message strings to
some other language.
A set of error-reporting macros are defined too. Some applications using
the JPEG library may wish to include this file to get the error codes
and/or the macros.
/*
 * cjpeg.c
 *
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 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

/*
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 *
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 *
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 * - Redistributions in binary form must reproduce the above copyright notice,
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 */
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* 
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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/TJBench.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjbench.c

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

/
* transupp.h
* 
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
* 
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

%ifarch x86_64
%define __lib lib64
%else
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#-->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and
VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

```bash
#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.a $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}
mkdir -p $RPM_BUILD_ROOT/usr/include
mv $RPM_BUILD_ROOT/opt/%{name}/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs/usr/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include/
ln -fs/usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/__defaultdocdir"
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT/__defaultdocdir/%{name}-%{version}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%dir %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
```
Open Source Used In Secure Workload 3.6.1.1  2443

/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/lib32
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so
/opt/%{name}/%{__lib}/libjpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so
/usr/%{__lib}/libturbojpeg.a
/usr/include/turbojpeg.h
%dir /opt/%{name}/include
/opt/%{name}/include/jconfig.h
/opt/%{name}/include/jerror.h
/opt/%{name}/include/jmorecfg.h
/opt/%{name}/include/jpeglib.h
/opt/%{name}/include/turbojpeg.h
%dir /opt/%{name}/man
%dir /opt/%{name}/man/man1
/opt/%{name}/man/man1/cjpeg.1*
/opt/%{name}/man/man1/djpeg.1*
/opt/%{name}/man/man1/jpegtran.1*
/opt/%{name}/man/man1/rdjpgcom.1*
/opt/%{name}/man/man1/wrjpgcom.1*
@JAVA_RPM_CONTENTS_1@
@JAVA_RPM_CONTENTS_2@

%changelog

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/ /libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
No license file was found, but licenses were detected in source scan.

: For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/ /libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/ /libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jccolmmx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jdcmrss2.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jcgrymmx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jcgrass2.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jiss2flt.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jiss2red.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jcclrss2-64.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jccllmxx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jdcolss2.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jjcrlrmsx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jj3dnflt.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jdclrmx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jj3dnflt.asm

* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jccolmmx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jdmrss2.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jcgrymmx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jcgrass2.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jiss2flt.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jiss2red.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jcclrss2-64.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jdcmrss2.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jccllmxx.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jj3dnflt.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-simd/jdclrmx.asm

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

/*
 * jdarith.c
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy decoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C)2011 D. R. Commander. All Rights Reserved.
*
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* modification, are permitted provided that the following conditions are met:
* 
* - Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
* 
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* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

package org.libjpegturbo.turbojpeg;
final class TJLoader {
  static void load() {
    System.loadLibrary("@TURBOJPEG_DLL_NAME@");
  }
};

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.
/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/transupp.c

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

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWt7FARlibjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

; ; j dct.inc - private declarations for forward & reverse DCT subsystems
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; ; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; ; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples
%
%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)
%
%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; -----------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWt7FARlibjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N,N,... Set quality ratings
* -qslots N,N,... Set component quantization table selectors
* -sample HxV,HxV,... Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
* /

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/rdbmp.c

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

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAж/libjpeg-turbo-1.2.90/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAж/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; [TAB8]
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

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

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jcolsamp.inc

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

/*
 * jmorecfg.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jmorecfg.h

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

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains routines to read input images in GIF format.
* 
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                     *
*****************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
Open Source Used In Secure Workload 3.6.1.1  2457

* http://docs.jquery.com/License
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/
/
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/*
* jQuery UI 1.7.2
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

*/
* jdcsrc.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jdcsrc.c
No license file was found, but licenses were detected in source scan.

*/
* Copyright (C)2011-2012 D. R. Commander. All Rights Reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
* - Redistributions of source code must retain the above copyright notice,
*   this list of conditions and the following disclaimer.
* - Redistributions in binary form must reproduce the above copyright notice,
*   this list of conditions and the following disclaimer in the documentation
*   and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its
*   contributors may be used to endorse or promote products derived from this
*   software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg-jni.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ Decompressor.java

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

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 * This code contributed by James Arthur Boucher.
 */
No license file was found, but licenses were detected in source scan.

/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

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/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 */

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* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options]  -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.
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\]

Found in path(s):

* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/release/License.rtf

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

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):

* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/cdjpeg.h

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

/*
 * jpegint.h
 */
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

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

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# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGE.

#!/bin/sh

if [ ! ""id -u"" = "0" ]; then
echo "ERROR: This script must be executed as root"
exit 1
fi
PACKAGE=@@PACKAGE_NAME@@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [-d $RECEIPT ]; then
  LSBOM='lsbom -s -f -l $RECEIPT/Contents/Archive.bom'
else
  LSBOM='pkgutil --files $MACPACKAGE'
fi

mylsbom()
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...,
EXITSTATUS=0
pushd /
mylsbom | while read file; do
  if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

exit

echo Removing package directories ...,
if [-d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [-d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
    echo Removing package receipt ...
    rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
    echo Forgetting package $MACPACKAGE ...
    pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.

*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

IJJ JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJJ JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampling image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJJ distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***
Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.
Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can
choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might
have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   
   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.
   
   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:
input data => processing step A => buffer => processing step B => output data

------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required.

The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

|-- Colorspace conversion
  |-- Preprocessing controller --|
    |                             |-- Downsampling

Main controller --|
    |                     |-- Forward DCT, quantize
    |-- Coefficient controller --|
         |                     |-- Entropy encoding

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One
or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of
coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|--
   |                             |   |-- Dequantize, Inverse DCT
Main controller --|
```

---

Open Source Used In Secure Workload 3.6.1.1  2475
<table>
<thead>
<tr>
<th></th>
<th>Upsampling</th>
</tr>
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<tbody>
<tr>
<td>Postprocessing controller</td>
<td>Colorspace conversion</td>
</tr>
<tr>
<td></td>
<td>Color quantization</td>
</tr>
<tr>
<td></td>
<td>Color precision reduction</td>
</tr>
</tbody>
</table>

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller’s DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which
is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCks, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand
bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two
pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan)
during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available
for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that
the total space used for small objects will be small enough to be negligible
in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is
infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the
virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set,
ever-yet-written sections of the array are set to zero before being made
available to the caller. If this flag is not set, never-written sections
of the array contain garbage. (This feature exists primarily because the
equivalent logic would otherwise be needed in jdcoefct.c for progressive
JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom
order; read passes, as well as any write passes after the first one, may
access the array in any order. This restriction exists partly to simplify
the virtual array control logic, and partly because some file systems may not
support seeking beyond the current end-of-file in a temporary file. The main
implication of this restriction is that rearrangement of rows (such as
converting top-to-bottom data order to bottom-to-top) must be handled while
reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the
memory manager into two parts. There is a reasonably system-independent
"front end" (jmemmgr.c) and a "back end" that contains only the code
likely to change across systems. All of the memory management methods
outlined above are implemented by the front end. The back end provides

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the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.
We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jutils.c

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
to include only information relevant to libjpeg-turbo, to wordsmith certain
sections, and to remove impolitic language that existed in the libjpeg v8
README. It is included only for reference. Please see README-turbo.txt for
information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
============================================

This distribution contains a release of the Independent JPEG Group's free JPEG
software. You are welcome to redistribute this software and to use it for any
purpose, subject to the conditions under LEGAL ISSUES, below.

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
========================

This file contains the following sections:
OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the
This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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==========

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

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

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
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REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

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

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


The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc8d.zip.


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

FILE FORMAT WARS
==================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together
with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.
1.2.90 (1.3 beta1)

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.
[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.
[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "%%define' expects a macro identifier''.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdconfig.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.
3.6.1.1  2496

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)

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

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called
[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).
1.1.1

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is $\geq 98$ and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or
greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
==================
[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.
[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
======

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
======

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90

Initial release

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jidcflt.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jconfig.txt 
* 
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* 
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* 
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*/ 
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/
/* Does your compiler support function prototypes? */
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"? */
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void. */
* NOTE: be sure to define void such that "void *" represents the most general
  * pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned. */
* If you're not sure, leaving it undefined will work at some cost in speed.
  * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, */
* but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the */
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in */
* <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, */
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
* /
* #undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
* /
* #undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see “incomplete types” in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy.
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get “missing structure definition” warnings or errors while
* compiling the JPEG code.
* /
* #undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
* /
* #ifdef _WIN32
* #ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
* typedef unsigned char boolean;
* #endif
* #define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
* #endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
* /
* #ifdef JPEG_INTERNALS

/* Define this if your compiler implements "\>>>" on signed values as a logical
* (unsigned) shift; leave it undefined if "\>>>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
* /
* #undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */
/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen("...","rb") or fopen("...","wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/ljlibjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd.h

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

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 *
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdtarga.c

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

License: IJG

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo.spec
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 * 
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 * 
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWt7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWt7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 * 
*/
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.               *
**************************************************************************
*
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream.                                     */
/*
* This code is loosely based on ppmtogif from the PBMPLUS distribution *
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>. *
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.  
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.                                                   
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."                                         */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* jdcolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems

---

Open Source Used In Secure Workload 3.6.1.1  2511
* you may have to edit this file.

* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (j dctmgr.c, j d dctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdct.h
No license file was found, but licenses were detected in source scan.

/*
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
* 
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo...
is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

```
/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */
```

```
/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.
Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

Functions provided by the library
The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------
The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
    jpeg_write_scanlines(...);
    jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
    jpeg_read_scanlines(...);
    jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().
It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

Please note that RGB data is three samples per pixel, grayscale only one. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless
you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the
whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

`jpeg_create_compress` allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.
WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */
```
jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".
Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.
It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory.
jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
```
fprintf(stderr, "can't open %s\n", filename);
exit(1);
}
jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged.
On non-Unix systems the stdio library may perform newline translation or
otherwise corrupt binary data. To suppress this behavior, you may need to use
a "b" option to fopen (as shown above), or use setmode() or another routine to
put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that
has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and
jpeg_finish_decompress(). If you wish to read a series of JPEG images from
a single source file, you should repeat the jpeg_read_header() to
jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from
being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning
of the compressed data proper. On return, the image dimensions and other
info have been stored in the JPEG object. The application may wish to
consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header()
  may return before it has read all the header data. See "I/O suspension",
  below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on
  abbreviated datastreams. Standard applications that deal only in
  interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the
image dimensions and other header info for a JPEG file. In that case,
call jpeg_destroy() when you are done with the JPEG object, or call
jpeg_abort() to return it to an idle state before selecting a new data
source and reading another header.
4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width
image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be
emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.
7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including
jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
--------------------------------
This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality...
settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:
J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other
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routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables()..
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance
is mainly only useful if chrominance subsampling is disabled. 2x2
chrominance subsampling (AKA "4:2:0") is the default, but you can
explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.
Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------
Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

- JDIMENSION image_width: Width and height of image
- JDIMENSION image_height
- int num_components: Number of color components
- J_COLOR_SPACE jpeg_color_space: Colorspace of image
- boolean saw_JFIF_marker: TRUE if a JFIF APP0 marker was seen
- UINT8 JFIF_major_version: Version information from JFIF marker
- UINT8 JFIF_minor_version
- UINT8 density_unit: Resolution data from JFIF marker
- UINT16 X_density
- UINT16 Y_density
- boolean saw_Adobe_marker: TRUE if an Adobe APP14 marker was seen
- UINT8 Adobe_transform: Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- J_COLOR_SPACE out_color_space
  Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

- unsigned int scale_num, scale_denom
  Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)
Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.
Additional decompression parameters that the application may set include:

**J_DCT_METHOD dct_method**
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB => YCbCr and CMYK => YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special
When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
- RGB => GRAYSCALE
- GRAYSCALE => RGB
- YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

- error_exit (j_common_ptr cinfo)
  Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
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The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress()
before any data is actually written. It must initialize
next_output_byte and free_in_buffer. free_in_buffer must be
initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer
reaches zero). In typical applications, it should write out the
*entire* buffer (use the saved start address and buffer length;
ignore the current state of next_output_byte and free_in_buffer).
Then reset the pointer & count to the start of the buffer, and
return TRUE indicating that the buffer has been dumped.
free_in_buffer must be set to a positive value when TRUE is
returned. A FALSE return should only be used when I/O suspension is
desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension

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Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted.
The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication
that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can’t
provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn
markers, but these are handled specially: they are either saved into allocated
memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of
buffer overrun is placed on skip_input_data's shoulders, as explained above.
Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked
list of buffer areas, so as to avoid data copying. This can be handled by
having empty_output_buffer() or fill_input_buffer() set the pointer and count
to reference the next available buffer; FALSE is returned only if no more
buffers are available. Although seemingly straightforward, there is a
pitfall in this approach: the backtrack that occurs when FALSE is returned
could back up into an earlier buffer. For example, when fill_input_buffer()
is called, the current pointer & count indicate the backtrack restart point.
Since fill_input_buffer() will set the pointer and count to refer to a new
buffer, the restart position must be saved somewhere else. Suppose a second
call to fill_input_buffer() occurs in the same library call, and no
additional input data is available, so fill_input_buffer must return FALSE.
If the JPEG library has not moved the pointer/count forward in the current
buffer, then *the correct restart point is the saved position in the prior
buffer*. Prior buffers may be discarded only after the library establishes
a restart point within a later buffer. Similar remarks apply for output into
a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call,
so any skipped data can be permanently discarded. You still have to deal
with the case of skipping not-yet-received data, however.

It’s much simpler to use only a single buffer; when fill_input_buffer() is
called, move any unconsumed data (beyond the current pointer/count) down to
the beginning of this buffer and then load new data into the remaining buffer
space. This approach requires a little more data copying but is far easier
to get right.

Progressive JPEG support
Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data
into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
-------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
```
This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`). If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid
When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

do {
   absorb any waiting input by calling jpeg_consume_input()
   final_pass = jpeg_input_complete(&cinfo);
   adjust output decompression parameters if required
   jpeg_start_output(&cinfo, cinfo.input_scan_number);
   ...
   jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

for (;;) {
   absorb any waiting input by calling jpeg_consume_input()
   jpeg_start_output(&cinfo, cinfo.input_scan_number);
}
... jpeg_finish_output()
if (jpeg_input_complete(&cinfo) &&
    cinfo.input_scan_number == cinfo.output_scan_number)
    break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *can*t change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.
The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.

2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of
two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is
   probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:

enable_1pass_quant	Fixed color cube colormap
enable_external_quant	Externally-supplied colormap
enable_2pass_quant	Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external
   colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.

   NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.

   (These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().
When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.
Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is
already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL*/
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL*/
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

```c
create JPEG decompression object
set source to tables-only file
```
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables.  In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found.  (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.)  When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't
flush the output buffer at term_destination() time.  This would speed things
up by some trifling amount.  Of course, you'd need to remember to flush the
buffer after the last image.  You can make the later images be abbreviated
ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG
datastream.  The JPEG standard provides marker types "COM" (comment) and
"APP0" through "APP15" (application) to hold application-specific data.
Unfortunately, the use of these markers is not specified by the standard.
COM markers are fairly widely used to hold user-supplied text.  The JFIF file
format spec uses APP0 markers with specified initial strings to hold certain
data.  Adobe applications use APP14 markers beginning with the string "Adobe"
for miscellaneous data.  Other APPn markers are rarely seen, but might
contain almost anything.
If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the
correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really
It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colors() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them
explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[
cinfo->comp_info[i].width_in_blocks*DCTSIZE \text{ samples per row} \\
cinfo->comp_info[i].height_in_blocks*DCTSIZE \text{ rows in image}
\]

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is
\[
cinfo->comp_info[0].h_samp_factor = 2 \text{ for Y} \\
cinfo->comp_info[0].v_samp_factor = 2 \\
cinfo->comp_info[1].h_samp_factor = 1 \text{ for Cb} \\
cinfo->comp_info[1].v_samp_factor = 1 \\
cinfo->comp_info[2].h_samp_factor = 1 \text{ for Cr} \\
cinfo->comp_info[2].v_samp_factor = 1
\]

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampling_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can
just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammmish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees are made about how often this call will occur,
so we don't recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don't pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit) / total_passes ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
---------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.
All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers...
managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel).

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not
If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------
A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.
You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:

- char is at least 8 bits wide
- shorts at least 16 bits wide
- ints at least 16 bits wide
- longs at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large
images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/libjpeg.txt

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/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcomapi.c

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/*
 * jdmrgext.c
 *
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 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

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/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcphuff.c

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/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jaricom.c

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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

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/*
 * jdmainct.c
 *
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmainct.c

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/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jddctmgr.c
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/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jchuff.h
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/*
 * jsimd_i386.c
 */
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
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/*
 * jmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmaster.c
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/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
* This file contains stubs for when there is no SIMD support available.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jsimd_none.c
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/*
* jcparam.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jcparam.c
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/*
* jdmaster.c
*
* This file was part of the Independent JPEG Group's software:
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* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jdmaster.c
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libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

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4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 */
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jdtrans.c

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

/* 
* jdatadst-tj.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jdatadst-tj.c

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

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86,
x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a
broader range of users and developers.

*******************************************************************************
** License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by
libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and
associated test programs bear a similar license, which is reproduced below:

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  and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its
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  software without specific prior written permission.

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POSSIBILITY OF SUCH DAMAGE.

*******************************************************************************
** Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing
and decompressing JPEG images in memory. It also provides some functionality
that would not be straightforward to achieve using the underlying libjpeg
API, such as generating planar YUV images and performing multiple
simultaneous lossless transforms on an image. The Java interface for
libjpeg-turbo is written on top of the TurboJPEG API.

**libjpeg API:** This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

========================================
Installation Directory
========================================

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Unix and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

========================================
Replacing libjpeg at Run Time
========================================

**Un*x**

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:${LD_LIBRARY_PATH}
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)
System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs
----------------------------------------
For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add `c:\libjpeg-turbo[64]\include` to the system or user INCLUDE environment variable and `c:\libjpeg-turbo[64]\lib` to the system or user LIB environment variable, and then link against either `jpeg.lib` (to use the DLL version of libjpeg-turbo) or `jpeg-static.lib` (to use the static version of libjpeg-turbo.)

```
===================== 
Colorspace Extensions
===================== 
```

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new
colorsce constants:

JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

#ifdef JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

#ifdef JCS_ALPHA_EXTENSIONS

jctest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the
compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

<table>
<thead>
<tr>
<th>Fully supported:</th>
</tr>
</thead>
<tbody>
<tr>
<td>-- libjpeg: IDCT scaling extensions in decompressor</td>
</tr>
<tr>
<td>libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>-- libjpeg: arithmetic coding</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>-- libjpeg: In-memory source and destination managers</td>
</tr>
<tr>
<td>See notes below.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>-- cjpeg: Separate quality settings for luminance and chrominance</td>
</tr>
<tr>
<td>Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>-- cjpeg: 32-bit BMP support</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>-- cjpeg: -rgb option</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>-- jpegtran: lossless cropping</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>-- jpegtran: -perfect option</td>
</tr>
</tbody>
</table>
-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored. There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored. SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored. This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.
What About libjpeg v9?

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

In-Memory Source/Destination Managers

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built
against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(),
then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory
source/destination manager functions. See their respective man pages for more
details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg
v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to
be identical (the accuracy of the floating point DCT/IDCT is constant when
using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on
the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is
still using the same algorithms as libjpeg v6b, so there are several specific
cases in which libjpeg-turbo cannot be expected to produce the same output as
libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8
   implements those scaling algorithms a bit differently than libjpeg v6b does,
   and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this
   with its DCT/IDCT scaling algorithms rather than with a separate
downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
   because the floating point IDCT algorithm was modified in libjpeg v8a to
   improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
   "non-smooth") chrominance upsampling, because libjpeg v8 does not support
   merged upsampling with scaling factors > 1.

*******************************************************************************
** Performance Pitfalls
*******************************************************************************

=============
Restart Markers
=============
The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

Fast Integer Forward DCT at High Quality Levels

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJd/libjpeg-turbo-1.2.90/README-turbo.txt

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

/ *
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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 ** copyright notice and this permission notice appear in supporting
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 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
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  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/bmp.h
/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJSimddct.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjj/libjpeg-turbo-1.2.90/jsimddct.h

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/*
 * jsimd_arm.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 */
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.

*/
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

*/
* jmennobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
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/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcpamam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jcapimin.c
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/*
* jccolext.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdpostct.c

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

;/*
* jfdctint.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
 *
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
 *
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups".  A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally.  The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup.  In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jsample.c
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* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfss2int.asm
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* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jfmmxint.asm
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1.244 python-setuptools 28.8.0

1.244.1 Available under license:
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1.245 orgjson 0.0.20131108.vaadin1

1.246 hdfs 2.0.9

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1.247 contextlib2 0.6.0.post1
1.247.1 Available under license:

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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

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

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

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

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1.249 pth 2.0.7 9.3.el6

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```
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1.250 six 1.15.0

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1.251 json-path 2.4.0

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1.252 nss 3.44.0 7.el7_7

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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/ChannelProgressiveFutureListener.java
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jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}.
* <h3>Sub-types</h3>

* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>

* <h3>The context object</h3>

* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.

* <h3>State management</h3>

* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
* </pre>
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*     <b>private boolean loggedIn;</b>
*     <code>@Override</code>
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*     }
* }
* }
loggedIn = true;

} else (message instanceof GetDataMessage) {
    if (loggedIn) {
        ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
    } else {
        fail();
    }
}

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See [@link ChannelInitializer#initChannel(Channel)].
public class DataServerInitializer extends [@link ChannelInitializer]<{@link Channel}> {
    @Override
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

<h4>Using [@link AttributeKey]s</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use [@link AttributeKey]s which is provided by
[@link ChannelHandlerContext]:

public interface Message {
    // your methods here
}

[@code @Sharable]
public class DataServerHandler extends [@link SimpleChannelInboundHandler]<{@link Message}> {
    private final [@link AttributeKey]<{@link Boolean}> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        Attribute<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {

authenticate((LoginMessage) o);
> attr.set(true);
> }
> }
> if (Boolean.TRUE.equals(attr.get())) {
>     ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
> } else {
>     fail();
> }
> }
> }
> }
> </pre>

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
@Sharable
public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

### The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and
[@link ChannelPipeline] to find out more about inbound and outbound operations,
what fundamental differences they have, how they flow in a pipeline, and how to handle
the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/DefaultChannelHandlerContext.java
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  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/PendingBytesTracker.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/internal/ChannelUtils.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/internal/package-info.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/bootstrap/FailedChannel.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1075319159_1596106896.09/0/netty-transport-4-1-35-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownException.java

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-
common/src/main/native/src/org/apache/hadoop/io/compress/lz4/[lz4.h,lz4.c,lz4hc.h,lz4hc.c]
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-
executor/impl/compat/[fstatat|openat|unlinkat].h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.4.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

=======
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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1.257 containerd-continuity 0.0.0-20200107194136-26c1120b8d41
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# Copying Container Files

## Motivation

- Copying files to and from Containers in a cluster
- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster
Copy requires that `tar` be installed in the container image.

## Local to Remote
Copy a local file to a remote Pod in a cluster.

- Local file format is ``<path>``
- Remote file format is ``<pod-name>`:<path>``

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local
Copy a remote file from a Pod to a local file.

- Local file format is ``<path>``
- Remote file format is ``<pod-name>`:<path>``

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container
Specify the Container within a Pod running multiple containers.

- ``-c <container-name>``

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `</namespace>`.

- `<pod-namespace>/</pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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1.263 nss 3.44.0-7.el6_10

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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@end enumerate

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

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

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

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

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jar/jersey/repackaged/com/google/common/math/MathPreconditions.java
*/opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-
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  jar/jersey/repackaged/com/google/common/collection/MapMaker.java
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* As of 2010/06/11, this method is identical to the (package private) hash
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  jar/jersey/repackaged/com/google/common/hash/package-info.java
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  jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedMultiset.java
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  jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-
  jar/jersey/repackaged/com/google/common/collection/TreeRangeSet.java
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  jar/jersey/repackaged/com/google/common/collection/ImmutableSortedSet.java
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  jar/jersey/repackaged/com/google/common/collection/Range.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-
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  jar/jersey/repackaged/com/google/common/collection/Table.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collect/RangeSet.java
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jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java
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jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-
jar/jersey/repackaged/com/google/common/collect/CartesianList.java
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jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
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jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ContiguousSet.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ComputingConcurrentHashMap.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/MapDifference.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/io/Resources.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/CountingOutputStream.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/base/Suppliers.java

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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/ComputingConcurrentHashMap.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/NullsFirstOrdering.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/MapConstraints.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1-jar/jersey/repackaged/com/google/common/collection/MutableClassToInstanceMap.java
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jar/jersey/repackaged/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collect/ForwardingList.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collect/AbstractMapBasedMultiset.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/eventbus/package-info.java
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* /opt/cola/permits/1138242373_1614277494.74/0/jersey-guava-2-14-sources-1.jar/jersey/repackaged/com/google/common/collect/ArrayListMultimap.java
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the version number 2.1.]

Preamble

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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1.271 conntrack-tools 1.4.4 7.el7

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1.275 redis-activesupport 5.2.1

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1.276 plexus-utils 3.2.1

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

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* M. Welsh, 6 July 1996

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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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(If you think you should be in this list, but you are not, drop a
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That's all there is to it!
1.293 munch 2.0.2

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1.294 ion-java 1.0.2

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1.295 h4-devise_invalidatable 0.2.1

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== README

This README would normally document whatever steps are necessary to get the application up and running.

Things you may want to cover:

* Ruby version

* System dependencies

* Configuration

* Database creation

* Database initialization

* How to run the test suite

* Services (job queues, cache servers, search engines, etc.)

* Deployment instructions

* ...

Please feel free to use a different markup language if you do not plan to run
Found in path(s):
* /opt/cola/permits/1200049378_1634063938.74/0/devise-invalidatable-0-2-1-tar-gz/devise_invalidatable-0.2.1/test/dummy/README.rdoc

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# devise_invalidatable

Adds support for [Devise](http://github.com/plataformatec/devise) to manually invalidate sessions on the server-side.

The core logic was shamelessly copied from [this](http://www.jonathanleighton.com/articles/2013/revocable-sessions-with-devise/) blog post by [@jonleighton](https://github.com/jonleighton). I just packaged it into a Devise extension for easy use.

## Installation

Add `h4-devise_invalidatable` to your Gemfile and install
```
gem 'h4-devise_invalidatable'
```
```
bundle install
```
Run the generator with the name of your Devise resource (e.g. User)
```
rails g devise_invalidatable User
```
This will add the directive to the resource's model and create a migration for the sessions table.

If using Mongoid, run the generator with `--mongoid`
```
rails g devise_invalidatable User --mongoid
```
This will add the directive to the resource's model and create a user session model.

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* Mike Adkins [@madkins](https://github.com/madkins)
* Michael Watts [@mikwat](https://github.com/mikwat)

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### 1.296 glibc 2.17-105.el7

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Appendix: How to Apply These Terms to Your New Libraries

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

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

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

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
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Library.

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fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
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      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.304 openssl 1.1.1g-r0

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* /opt/cola/permits/1135840581_1613612850.71/0/android-json-0-0-20131108.vaadin1-sources-1-jar/org/json/JSONStringer.java
* /opt/cola/permits/1135840581_1613612850.71/0/android-json-0-0-20131108.vaadin1-sources-1-jar/org/json/JSONObject.java
* /opt/cola/permits/1135840581_1613612850.71/0/android-json-0-0-20131108.vaadin1-sources-1-jar/org/json/JSONTokener.java
* /opt/cola/permits/1135840581_1613612850.71/0/android-json-0-0-20131108.vaadin1-sources-1-jar/org/json/JSON.java
* /opt/cola/permits/1135840581_1613612850.71/0/android-json-0-0-20131108.vaadin1-sources-1-jar/org/json/JSONException.java

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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/regions/Regions.java

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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/metrics/SimpleMetricType.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/waiters/WaiterParameters.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/monitoring/CsmConfigurationProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/metrics/ServiceMetricType.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/policy/Principal.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/transform/SimpleTypeStaxUnmarshallers.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/monitoring/CsmConfigurationProviderChain.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/ClientConfiguration.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/transform/SimpleTypeStaxUnmarshallers.java
jar/com/amazonaws/metrics/AwsSdkMetrics.java
* /opt/cola/permits/1138241646_1614277448.42/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/event/ProgressEvent.java

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jar/com/amazonaws/internal/http/ErrorCodeParser.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-
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jar/com/amazonaws/ReadLimitInfo.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/AWSSStaticCredentialsProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/profile/internal/ProfileStaticCredentialsProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/profile/path/config/ConfigEnvVarOverrideLocationProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/regions/AwsSystemPropertyRegionProvider.java
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jar/com/amazonaws/auth/profile/internal/AwsProfileNameLoader.java
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jar/com/amazonaws/SdkClientException.java
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jar/com/amazonaws/protocol/json/JsonContentTypeResolver.java
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* /opt/cola/permits/1138241646_1614277448.42.0/aws-java-sdk-core-1-11-414-sources-
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jar/com/amazonaws/util/TimingInfoUnmodifiable.java
* /opt/cola/permits/1138241646_1614277448.42.0/aws-java-sdk-core-1-11-414-sources-
jar/com/amazonaws/protocol/DefaultMarshallingType.java
* /opt/cola/permits/1138241646_1614277448.42.0/aws-java-sdk-core-1-11-414-sources-
jar/com/amazonaws/protocol/MarshallingType.java
* /opt/cola/permits/1138241646_1614277448.42.0/aws-java-sdk-core-1-11-414-sources-
jar/com/amazonaws/internal/SdkFunction.java
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jar/com/amazonaws/protocol/json/SdkStructuredJsonFactoryImpl.java
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jar/com/amazonaws/internal/config/SignerConfig.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/internal/config/Builder.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/Protocol.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/regions/RegionImpl.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
jar/com/amazonaws/regions/RegionMetadataProvider.java
*/opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-
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jar/com/amazonaws/internal/SdkSSLContext.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/internal/EC2MetadataClient.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/ImmutableRequest.java

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/**
* Interface for providing AWS credentials. Implementations are free to use any
* strategy for providing AWS credentials, such as simply providing static
* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.
*/

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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/annotation/NotThreadSafe.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/annotation/SdkInternalApi.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/annotation/Immutable.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/annotation/ThreadSafe.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/annotation/GuardedBy.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/annotation/SdkTestInternalApi.java

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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/internal/BoundedLinkedHashMap.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/event/SyncProgressListener.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/internal/SdkInputStream.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/util/ClassLoaderHelper.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/permits/RequestClientOptions.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/metrics/MetricAdmin.java
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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java

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* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/auth/SigningAlgorithm.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java
* /opt/cola/permits/1138241646_1614277448.42/0/aws-java-sdk-core-1-11-414-sources-jar/com/amazonaws/http/HttpMethodName.java
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* /opt/cola/permits/1138241646_1614277448.42/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/util/EncodingSchemeEnum.java
* /opt/cola/permits/1138241646_1614277448.42/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/RegionMetadataParser.java
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* /opt/cola/permits/1138241646_1614277448.42/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/regions/RegionMetadata.java
* /opt/cola/permits/1138241646_1614277448.42/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/util/Base32.java
* /opt/cola/permits/1138241646_1614277448.42/aws-java-sdk-core-1-11-414-sources.jar/com/amazonaws/util/Base32Codec.java
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1.308 cryptsetup-luks 1.2.0 7.el6

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Czech translation for cryptsetup.

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

------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>,'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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meta-spec:
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Also add information on how to contact you by electronic and paper mail.

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    Yoyodyne, Inc., hereby disclaims all copyright interest in the
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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The End

#1perl

=head1 NAME
copyright.t
DESCRIPTION

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

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

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

$year;
}

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

    $year;
}

1.312 curator-framework 2.12.0

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1.313 ansible-base 2.10.15

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1.316 gir1.2-gdkpixbuf-2.0 2.36.12 3.el7

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
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  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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Included for the use of the fix_strcasecmp.c module which works
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*/

1.344 llvm-private 7.0.1 1.el7

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; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246: ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
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* /
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0> ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0> ret <4 x double> %res
}

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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject <NSObject> {}
@end
@interface NSString : NSObject
@end
void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}
static NSString *_logProcessPrefix = 0;
void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@end

@class Derived;
NSObject *ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);
@end
@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument
types).
    // Since registerFn: expects a Derived object as it's second argument, I don't know why this would be legal.
    [Derived registerFn: ExternFunc]; // expected-warning{{[incompatible pointer types sending 'NSObject
*(NSObject *, NSObject *)' to parameter of type 'FuncSignature *']}}
}
```swift
// rdar://10751015
@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class 'ForwarClass' to protocol 'NSCopying' can not be confirmed}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {  
[pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type 'id<NSCopying>'}}

id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwarClass *'}}

return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type 'ForwarClass *'}}
}

hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator!
```

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</tr>
<tr>
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<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
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<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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</table>
// RUN: %clang_analyze_cc1 -analyzer-checker=core,unix.cstring.NullArg,alpha.unix.cstring,debug.ExprInspection -analyzer-store=region -verify %s

#define NULL ((void *)0)

typedef __typeof(sizeof(int)) size_t;
size_t strlcpy(char *dst, const char *src, size_t n);
size_t strlcat(char *dst, const char *src, size_t n);
void clang_analyzer_eval(int);

void f1() {
  char overlap[] = "123456789";
  strlcpy(overlap, overlap + 1, 3); // expected-warning{{Arguments must not be overlapping buffers}}
}

void f2() {
  char buf[5];
  strlcpy(buf, "abcd", sizeof(buf)); // expected-no-warning
  strlcat(buf, "efgh", sizeof(buf)); // expected-warning{{Size argument is greater than the free space in the destination buffer}}
}

void f3() {
  char dst[2];
  const char *src = "abdef";
  strlcpy(dst, src, 5); // expected-warning{{Size argument is greater than the length of the destination buffer}}
}

void f4() {
  strlcpy(NULL, "abcdef", 6); // expected-warning{{Null pointer argument in call to string copy function}}
}

void f5() {
  strlcat(NULL, "abcdef", 6); // expected-warning{{Null pointer argument in call to string copy function}}
}

void f6() {
  char buf[8];
  strlcpy(buf, "abc", 3);
  size_t len = strlcat(buf, "defg", 4);
  clang_analyzer_eval(len == 7); // expected-warning{{TRUE}}
}

int f7() {
  char buf[8];
  return strlcpy(buf, "1234567", 0); // no-crash
}
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-------
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type [ i8*, i8, %union.anon.0 ]
%union.anon.0 = type [ i8* ]

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
  ; preds = %entry
  br label %while.body

while.body:
  ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i:
  ; preds = %while.body
  unreachable

sw.bb3.i:
  ; preds = %while.body
  unreachable

exit:
  ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

sw.bb.i17:
  ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20:
  ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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/* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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  jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/reflect/TypeVisitor.java

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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/reflect/package-info.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableSet.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
  jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
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 * 
 * As of 2010/06/11, this method is identical to the (package private) hash
 * method in OpenJDK 7's java.util.HashMap class.
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
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jar/jersey/repackaged/com/google/common/collection/DenseImmutableTable.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/collection/MapMaker.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/collection/Cut.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/collection/SparseImmutableTable.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
jar/jersey/repackaged/com/google/common/base/Utf8.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/base/Verify.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/base/VerifyException.java

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jar/jersey/repackaged/com/google/common/cache/LongAdder.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableMultimap.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
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* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1136415804_1613765852.84/0/jersey-guava-2-24-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingBlockingQueue.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/runtime/DotClass.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtConstructor.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/DeprecatedAttribute.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/DoubleConst.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/CodeIterator.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/ClassPath.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/RemoteRef.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LongVector.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/tools/Dump.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactory.java
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# Get modification time of a file or directory and pretty-print it.

scriptversion=2010-08-21.06; # UTC

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1.354 xml-rpc 0.3.0

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1.357 curator-framework 2.7.1

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1.361 byte-buddy 1.5.5

1.362 yum-utils 1.1.31-50.el7
1.362.1 Available under license :

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1.363 yum 3.4.3 161.el7.centos

1.363.1 Available under license:

diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+    
+    def get_notices(self, name=None):
+        """Return all notices."
+        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
             name = oldpkgtup[0]
             arch = oldpkgtup[1]

Open Source Used In Secure Workload 3.6.1.1 3640
ret = []
+ other_arch_list = []
+ notices = set()
for notice in self.get_notices(name):
    for upkg in notice['pkglist']:
        for pkg in upkg['packages']:
+            other_arch = False
                if pkg['name'] != name or pkg['arch'] != arch:
-                    continue
+                    if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                        other_arch = True
+                    else:
+                        continue
+                    pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                    pkg['version'], pkg['release'])
if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
    continue
-        ret.append((pkgtup, notice))
+        if other_arch:
+            other_arch_list.append((pkgtup, notice))
+        else:
+            ret.append((pkgtup, notice))
+            notices.add(notice)
    for pkgtup, notice in other_arch_list:
        if notice not in notices:
            ret.append((pkgtup, notice))
    ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret
+ def __init__(self, elem=None, repoid=None, vlogger=None):
    self._md = {
        'from': '',
        'type': '',
    }
@@ -83,6 +83,9 @@ class UpdateNotice(object):
    if elem:
        self._parse(elem)

+        self._repoid = repoid
+        self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """ Allows scriptable metadata access (ie: un['update_id']). """
+        if type(item) is int:
@ @ -103,6 +106,24 @@ class UpdateNotice(object):
            # Tests to see if it's "the same data", which means that the
            # packages can be different (see add_notice).

+        def _rid(un):
+            if hasattr(un, '_repoid') and un._repoid is not None:
+                return un._repoid
+            else:
+                return '<unknown>'
+
+        def _log_failure(data):
+            """Log the mismatched data similarly to conflict markers in git."""
+            if self._vlogger is None:
+                return
+            msg = _('Duplicate of %s differs in some fields:
')
+            msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+            msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+            msg += '>>>>>>> %s:%s' % (_rid(self), data)
+            # --verbose mode enables this
+    if not other or not hasattr(other, '_md'):
        return False
@@ -113,6 +134,7 @@ class UpdateNotice(object):
            if self._vlogger is None:
                return
            msg = _('Duplicate of %s differs in some fields:\n')
+            msg %= other._md[update_id]
+            msg += '<<<<<<< %s:%s\n' % (_rid(other), data)
+            msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+            msg += '>>>>>>>
%r
%r
' % (_rid(self), data)
+            # --verbose mode enables this
            self._vlogger.log(logginglevels.DEBUG_3, msg)
+
+        if not other or not hasattr(other, '_md'):
+            return False

@ @ -113,6 +134,7 @@ class UpdateNotice(object):
            if data == 'status': # FIXME: See below...
                continue
            if self._md[data] != other._md[data]:
+                        _log_failure(data)
                return False
        # FIXME: Massive hack, Fedora is really broken and gives status=stable
        # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
        return False
    if data == 'status': # FIXME: See below...
        continue
+        _log_failure(data)
        return False

# FIXME: Massive hack, Fedora is really broken and gives status=stable
# and status=testing for updateinfo notices, just depending on which
data = 'status'
if self._md[data] != other._md[data]:
    if self._md[data] not in ('stable', 'testing'):
+        _log_failure(data)
        return False
    if other._md[data] not in ('stable', 'testing'):
+        _log_failure(data)
        return False
# They are both really "stable" ...
    self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
    for event, elem in safe_iterparse(infile, logger=self._logger):
        if elem.tag == 'update':
            try:
-                un = UpdateNotice(elem)
+                un = UpdateNotice(elem, repoid, self._vlogger)
            except UpdateNoticeException, e:
                msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
                if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                    msg += _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
                    _rid(repoid))
            if not have_dup:
+                msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s ")
+                msg += _("If you are the owner, consider re-running the same command with --verbose to see the 
+                'exact data that caused the conflict.")
                have_dup = True
            if self._vlogger:
                self._vlogger.warn("%s", msg)

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<signature of Ty Coon>, 1 April 1989
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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Ty Coon, President of Vice

That's all there is to it!

1.369 libproxy 0.4.11 11.el7

1.369.1 Available under license:

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Version 2.1, February 1999

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

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three years, to give the same user the materials specified in
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1.371 cython 0.27.3

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Name: custompalette
Columns: 4
#
0 0 0  Index 3
65 38 30  Index 4
103 62 49  Index 6
79 73 72  Index 7
114 101 97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

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GIMP Palette
Name: badpalettefile
Columns: 4
#
0 0 0  0 0 0  0 0 0  0 0 0  0 0 0  0 0 0  Index 3
#
0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
103 62  49  103 62  49  103 62  49  103 62  49  Index 6
79  73  72  79  73  72  79  73  72  79  73  72  Index 7
114 101  97  114 101  97  114 101  97  114 101  97  Index 8
208 127 100  208 127 100  208 127 100  208 127 100  Index 9
151 144 142  151 144 142  151 144 142  151 144 142  Index 10
221 207 199  221 207 199  221 207 199  221 207 199  Index 11

GIMP Palette
Name: Test
Columns: 0
#

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

1.373 reflectasm 1.10.1
1.373.1 Available under license:

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* /opt/cola/permits/1145449535_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java
* /opt/cola/permits/1145449535_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/MethodAccess.java
* /opt/cola/permits/1145449535_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/FieldAccess.java
* /opt/cola/permits/1145449535_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/AccessClassLoader.java

1.374 sed 4.2.2-7.el7
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1.375 pickleshare 0.7.2

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Metadata-Version: 1.1
Name: pickleshare
Version: 0.7.2
Summary: Tiny 'shelve'-like database with concurrency support
Home-page: https://github.com/pickleshare/pickleshare
Author: Ville Vainio
Author-email: vivainio@gmail.com
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Description: PickleShare - a small 'shelve' like datastore with concurrency support

Like shelve, a PickleShareDB object acts like a normal dictionary. Unlike shelve,
many processes can access the database simultaneously. Changing a value in
database is immediately visible to other processes accessing the same database.

Concurrency is possible because the values are stored in separate files. Hence
the "database" is a directory where *all* files are governed by PickleShare.

Example usage::

    from pickleshare import *
    db = PickleShareDB('~/testpickleshare')
    db.clear()
print("Should be empty:",db.items())
db['hello'] = 15
db['aku ankka'] = [1,2,313]
db['paths/are/ok/key'] = [1,(5,46)]
print(db.keys())

This module is certainly not ZODB, but can be used for low-load (non-mission-critical) situations where tiny code size trumps the advanced features of a "real" object database.

Installation guide: pip install pickleshare

Keywords: database persistence pickle ipc shelve
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Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
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1.376 arrow 0.4.4

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1.377 idna 2.10

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====
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

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

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
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            'Programming Language :: Python',
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            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
        ]
    }
    setup(**arguments)

main()
```
1.378 rack-test 1.1.0

1.378.1 Available under license:

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1.379 jersey-media-json-jackson 2.24

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1.380 libthai 0.1.14 9.el7

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1.381 hadoop-mapreduce-client-common

3.3.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/[lz4.h,lz4.c,lz4hc.h,lz4hc.c]
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/datatables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/datatables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.4.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

========

For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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GIMP Palette
Name: custompalette
Columns: 4
#
  0  0  0     Index 3
  65  38  30   Index 4
 103  62  49   Index 6
   79  73  72   Index 7
 114 101  97   Index 8
 208 127 100   Index 9
 151 144 142   Index 10
 221 207 199   Index 11

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10x20-ISO8859-1.pcf

(from https://packages.ubuntu.com/xenial/xfonts-base)

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GIMP Palette
Name: badpalettefile
Columns: 4
#
0 0 0  Index 3
012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890]
103 62 49  Index 6
79 73 72  Index 7
114 101 97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11
GIMP Palette
Name: Test
Columns: 0
#
GIMP Palette
Name: badpaletteentry
Columns: 4
#
0 0 0  Index 3
65 38
103 62 49  Index 6
79 73 72  Index 7
114 101 97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

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Blosc - A blocking, shuffling and lossless compression library

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LZ4 - Fast LZ compression algorithm

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1.392 jackson-databind 2.9.10

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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b) Use a suitable shared library mechanism for linking with the
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1.408.1 Available under license:

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**Open Source Used In Secure Workload 3.6.1.1 4021**
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Open Source Used In Secure Workload 3.6.1.1  4028
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patch.facecolor: 348ABD  # blue
patch.edgecolor: EEEEEEE
patch.antialiased: True

font.size: 10.0

axes.facecolor: E5E5E5
axes.edgecolor: white
axes.linewidth: 1
axes.grid: True
axes.titlesize: x-large
axes.labelsize: large
axes.labelcolor: 555555
axes.axisbelow: True  # grid/ticks are below elements (e.g., lines, text)
axes.prop_cycle: cycler('color', ['E24A33', '348ABD', '988ED5', '777777', 'FBC15E', '8EBA42', 'FFB5B8'])
  # E24A33 : red
  # 348ABD : blue
  # 988ED5 : purple
  # 777777 : gray
  # FBC15E : yellow
  # 8EBA42 : green
  # FFB5B8 : pink

xtick.color: 555555
xtick.direction: out

ytick.color: 555555
ytick.direction: out

grid.color: white
grid.linestyle: -  # solid line

figure.facecolor: white
figure.edgecolor: 0.50
# Seaborn paper context
figure.figsize: 6.4, 4.4
axes.labelsize: 8.8
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KPX C period -30
KPX C comma -30

KPX D period -70
KPX D comma -70
KPX D Y -90
KPX D W -40
KPX D V -70
KPX D A -40

KPX F r -45
KPX F period -150
KPX F o -30
KPX F e -30
KPX F comma -150
KPX F a -50
KPX F A -80

KPX J u -20
KPX J period -30
KPX J comma -30
KPX J a -20
KPX J A -20

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KPX K u -30
KPX K o -40
KPX K e -40
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KPX L y -30
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KPX L Y -140
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Open Source Used In Secure Workload 3.6.1.1 4072

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Open Source Used In Secure Workload 3.6.1.1  4079

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#Author: Cameron Davidson-Pilon, original styles from Bayesian Methods for Hackers
# https://github.com/CamDavidsonPilon/Probabilistic-Programming-and-Bayesian-Methods-for-Hackers/

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Open Source Used In Secure Workload 3.6.1.1 4138

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/*!  
 * jQuery JavaScript Library v1.11.3  
 * http://jquery.com/  
 *  
 * Includes Sizzle.js  
 * http://sizzlejs.com/  
 *  
 * Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors  
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 * http://jquery.org/license  
 *  
 * Date: 2015-04-28T16:19Z  
 */
Comment found in jQuery UI source code:

/*! jQuery UI - v1.11.4 - 2015-03-11
 * http://jqueryui.com
 * Includes: core.js, widget.js, mouse.js, position.js, accordion.js, autocomplete.js, button.js, datepicker.js, dialog.js,
 * draggable.js, droppable.js, effect.js, effect-blind.js, effect-bounce.js, effect-clip.js, effect-drop.js, effect-explode.js,
 * effect-fade.js, effect-fold.js, effect-highlight.js, effect-puff.js, effect-pulsate.js, effect-scale.js, effect-shake.js, effect-
 * size.js, effect-slide.js, effect-transfer.js, menu.js, progressbar.js, resizable.js, selectable.js, selectmenu.js, slider.js,
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Open Source Used In Secure Workload 3.6.1.1 4144
Open Source Used In Secure Workload 3.6.1.1 4146
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Open Source Used In Secure Workload 3.6.1.1  4157
Open Source Used In Secure Workload 3.6.1.1  4160
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KPX quoteright l 0
KPX quoteright d -25
KPX r y 0
This directory contains font metrics for the 14 PDF Core Fonts, downloaded from Adobe. The title and this paragraph were added by Matplotlib developers. The download URL was <http://partners.adobe.com/public/developer/font/index.html>.

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StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:20 1990
Comment UniqueID 5000774
FontName CMEX10
EncodingScheme FontSpecific
FullName CMEX10
FamilyName Computer Modern
Weight Medium
ItalicAngle 0
IsFixedPitch false
Version 1.00
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -24 -2960 1454 772
XHeight 430.556
Comment CapHeight 0
Ascender 750
Comment Descender -1760
Descender -2960
Comment FontID CMEX
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX math extension
Comment Space 0 0 0
Comment ExtraSpace 0
Comment Quad 1000
Comment DefaultRuleThickness 40
Comment BigOpSpacing 111.111 166.667 200 600 100
Comment Ascendible characters (74)% macro - PS charname
Open Source Used In Secure Workload 3.6.1.1  4183
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KPX U A -18

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KPX V i -18
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KPX V comma -125
KPX V a -74
KPX V A -74

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KPX W semicolon -55
KPX W period -100
KPX W o -74
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KPX W hyphen -100
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KPX W comma -100
KPX W a -74
KPX W A -74

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KPX Y semicolon -25
KPX Y period -100
KPX Y o -100
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KPX Y a -100
KPX Y A -91

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KPX comma space -18
KPX comma quotedblright -18
KPX comma quotedblright -18
EndComposites
EndFontMetrics
StartFontMetrics 2.0
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Wed Jan 17 21:48:26 1990
Comment UniqueID 27004
Comment VMusage 28489 37622
FontName Symbol
FullName Symbol
FamilyName Symbol
Weight Medium
ItalicAngle 0
IsFixedPitch false
FontBBox -180 -293 1090 1010
UnderlinePosition -98
UnderlineThickness 54
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.
EncodingScheme FontSpecific
StartCharMetrics 189
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclaim ; B 128 -17 240 672 ;
C 34 ; WX 713 ; N universal ; B 31 0 681 705 ;
C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;
C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;
C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;
C 38 ; WX 778 ; N ampersand ; B 41 -18 750 661 ;
C 39 ; WX 439 ; N suchthat ; B 48 -17 414 500 ;
C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;
C 41 ; WX 333 ; N parenright ; B 30 -191 277 673 ;
C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;
C 43 ; WX 549 ; N plus ; B 10 0 539 533 ;
C 44 ; WX 250 ; N comma ; B 56 -152 194 104 ;
C 45 ; WX 549 ; N minus ; B 11 233 535 288 ;
C 46 ; WX 250 ; N period ; B 69 -17 181 95 ;
C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;
C 48 ; WX 500 ; N zero ; B 23 -17 471 685 ;
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C 59 ; WX 278 ; N semicolon ; B 83 -152 221 460 ;
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A high quality rendering engine for C++
http://antigrain.com

Anti-Grain Geometry - Version 2.4
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FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Helvetica is a
trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
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Open Source Used in Secure Workload 3.6.1.1 4226
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C -1 ; WX 556 ; N gcommaaccent ; B 40 -220 499 822 ;
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KPX egrave yacute -15
KPX egrave ydieresis -15
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KPX emacron period 20
KPX emacron v -15
KPX emacron w -15
KPX emacron x -15
KPX emacron y -15
KPX emacron yacute -15
KPX emacron ydieresis -15
KPX eogonek comma 10
KPX eogonek period 20
KPX eogonek v -15
KPX eogonek w -15
KPX eogonek x -15
KPX eogonek y -15
KPX eogonek yacute -15
KPX eogonek ydieresis -15
KPX f comma -10
KPX f e -10
KPX f eacute -10
KPX f ecaron -10
KPX f ecircumflex -10
KPX f edieresis -10
KPX f edotaccent -10
KPX f egrave -10
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KPX f eogonek -10
KPX rcaron tcommaaccent 20
KPX rcaron v 10
KPX rcaron y 10
KPX rcaron yacute 10
KPX rcaron ydieresis 10
KPX rcommaaccent c -20
KPX rcommaaccent cacute -20
KPX rcommaaccent ccaron -20
KPX rcommaaccent ccedilla -20
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KPX rcommaaccent hyphen -20
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KPX rcommaaccent otilde -20
KPX rcommaaccent period -60
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KPX rcommaaccent sacute -15
KPX rcommaaccent scaron -15
KPX rcommaaccent scedilla -15
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KPX rcommaaccent y 10
KPX rcommaaccent yacute 10
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KPX s w -15
KPX sacute w -15
KPX scaron w -15
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KPX scommaaccent w -15
KPX semicolon space -40
KPX space T -100
KPX space Tcaron -100
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KPX space V -80
Open Source Used In Secure Workload 3.6.1.1  4342
KPX y e -20
KPX y comma -100
KPX y a -20

KPX z o -15
KPX z e -15
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EndKernData
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CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 14 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 14 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 14 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 246 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 264 195 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 264 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 264 195 ;
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CC Scaron 2 ; PCC S 0 0 ; PCC caron 208 195 ;
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CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 102 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 84 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;
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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

StartFontMetrics 2.0
Comment Creation Date: Tue May 28 16:56:07 1991
Comment UniqueID 35034
Comment VMusage 31030 37922
FontName NewCenturySchlbk-BoldItalic
FullName New Century Schoolbook Bold Italic
FamilyName New Century Schoolbook
Weight Bold
ItalicAngle -16
IsFixedPitch false
FontBBox -205 -250 1147 991
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
EncodingScheme AdobeStandardEncoding
CapHeight 722
XHeight 477
Ascender 737
Descender -205
StartCharMetrics 228
C 32 ; WX 287 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 0 -15 333 737 ;
C 34 ; WX 400 ; N quotedbl ; B 66 388 428 737 ;
C 35 ; WX 574 ; N numbersign ; B 30 0 544 690 ;
Open Source Used In Secure Workload 3.6.1.1 4358
Open Source Used In Secure Workload 3.6.1.1 4359
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KPX A G 5
KPX A C 5

KPX B period 15
KPX B comma 15
KPX B U 15
KPX B A -11

KPX C A -5

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KPX D comma -11
KPX D Y 6
KPX D W -11
KPX D V -18

KPX F r -27
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KPX F o -47
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KPX K o -4
KPX K e 18

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KPX P A -80

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KPX R V -24

KPX S period -18
KPX S comma -18

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KPX T h -9
KPX T e -33
KPX T comma -55
KPX T a -40
KPX T O 11
KPX T A -60

KPX U period -25
KPX U comma -25
KPX U A -42

KPX V u -70
KPX V semicolon 6
KPX V period -94
KPX V o -71
KPX V i -35
KPX V hyphen -94
KPX V e -66
KPX c comma -8
KPX colon space -18
KPX comma space -18
KPX comma quotelight -18
KPX comma quotedblight -18
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KPX d w -15
KPX e y -15
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KPX e w -15
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KPX e g -4
KPX e b -8
KPX f quotelight 105
KPX f quotedblight 105
KPX f period -28
KPX f o 7
KPX f l 7
KPX f i 7
KPX f e 14
KPX f dotlessi 7
KPX f comma -28
KPX f a 8
KPX g y -11
KPX g r 11
KPX g period -5
KPX g comma -5
KPX h y -20
KPX i v 7
KPX k y -15
KPX k o -22
KPX k e -16
KPX l y -7
KPX l w -7
KPX m y -20
KPX m u -11
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# Solarized color palette taken from http://ethanschoonover.com/solarized
# Inspired by, and copied from ggthemes https://github.com/jrnold/ggthemes

#TODO:
#   1. Padding to title from face
#   2. Remove top & right ticks
#   3. Give Title a Magenta Color(?)

#base00     ='#657b83'
#base01     ='#93a1a1'
#base2      ='#eee8d5'
#base3      ='#fdf6e3'
#base01     ='#586e75'
#Magenta    ='#d33682'
#Blue       ='#268bd2'
#cyan       ='#2aa198'
#violet     ='#6c71c4'
#green      ='#859900'
#orange     ='#cb4b16'

figure.facecolor : FDF6E3

patch.antialiased : True

lines.linewidth : 2.0
lines.solid_capstyle: butt

axes.titlesize : 16
axes.labelsize : 12
axes.labelcolor : 657b83
axes.facecolor : eee8d5
axes.edgecolor : eee8d5
axes.axisbelow : True
axes.prop_cycle : cycler('color', ['268BD2', '2AA198', '859900', 'B58900', 'CB4B16', 'DC322F', 'D33682', '6C71C4'])

# Blue
# Cyan
# Green
# Yellow
# Orange
# Red
# Magenta
# Violet
axes.grid : True
grid.color : fdf6e3  # grid color
grid.linestyle : -  # line
grid.linewidth : 1  # in points

### TICKS
xtick.color : 657b83
xtick.direction : out

ytick.color : 657b83
ytick.direction : out
# Set black background default line colors to white.

direction: 0

lines.color: white
patch.edgecolor: white

text.color: white

axes.facecolor: black
axes.edgecolor: white
axes.labelcolor: white
axes.prop_cycle: cycler('color', ['8dd3c7', 'feffb3', 'bfbbd9', 'fa8174', '81b1d2', 'fdb462', 'b3de69', 'bc82bd', 'ccebc4', 'ffed6f'])

xtick.color: white
ytick.color: white

grid.color: white

figure.facecolor: black
figure.edgecolor: black

savefig.facecolor: black
savefig.edgecolor: black
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Exceptions
==========

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# License along with this library; if not, write to the Free Software
# Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Comment Creation Date: Tue Mar 20 12:15:44 1990
Comment UniqueID 28416
Comment VMusage 30487 37379
FontName Times-Roman
FullName Times Roman
FamilyName Times
Weight Roman
ItalicAngle 0
Open Source Used In Secure Workload 3.6.1.1 4376
Open Source Used In Secure Workload 3.6.1.1  4378
C -1 ; WX 750 ; N onehalf ; B 31 -14 746 676 ;
EndCharMetrics
StartKernData
StartKernPairs 283

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KPX A quotedblright 0
KPX A p 0
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KPX A V -135
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KPX A T -111
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KPX A O -55
KPX A G -40
KPX A C -40

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KPX J u 0
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Open Source Used In Secure Workload 3.6.1.1 4389
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<td>L slash yacute</td>
<td>-55</td>
</tr>
<tr>
<td>L slash ydieresis</td>
<td>-55</td>
</tr>
<tr>
<td>N A</td>
<td>-20</td>
</tr>
<tr>
<td>N Aacute</td>
<td>-20</td>
</tr>
<tr>
<td>N Abreve</td>
<td>-20</td>
</tr>
<tr>
<td>N Acircumflex</td>
<td>-20</td>
</tr>
<tr>
<td>N Adieresis</td>
<td>-20</td>
</tr>
<tr>
<td>N Agrave</td>
<td>-20</td>
</tr>
<tr>
<td>N Amacron</td>
<td>-20</td>
</tr>
<tr>
<td>N Aogonek</td>
<td>-20</td>
</tr>
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KPX Racute Ocircumflex -30
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KPX Racute Ograve -30
KPX Racute Ohungarumlaut -30
KPX Racute Omacron -30
KPX Racute Oslash -30
KPX Racute Otilde -30
KPX Racute T -40
KPX Racute Tcaron -40
KPX Racute Tcommaaccent -40
KPX Racute U -30
KPX Racute Uacute -30
KPX Racute Ucircumflex -30
KPX Racute Udieresis -30
KPX Racute Ugrave -30
KPX Racute Uhungarumlaut -30
KPX Racute Umacron -30
KPX Racute Uogonek -30
KPX Racute Uring -30
KPX Racute Uacute -30
KPX Racute Ucircumflex -30
KPX Racute Udieresis -30
KPX Racute Ugrave -30
KPX Racute Uhungarumlaut -30
KPX Racute Umacron -30
KPX Racute Uogonek -30
KPX Racute Uring -30
KPX T Oslash -18
KPX T Otilde -18
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KPX T abreve -52
KPX T acircumflex -52
KPX T adieresis -52
KPX T agrave -52
KPX Tamacron -52
KPX T aogonek -92
KPX T aring -92
KPX T atilde -52
KPX T colon -74
KPX T comma -74
KPX T e -92
KPX T eacute -92
KPX T ecaron -92
KPX T ecircumflex -92
KPX T edieresis -52
KPX T edotaccent -92
KPX T egrave -52
KPX T emacron -52
KPX T eogonek -92
KPX T hyphen -92
KPX T i -18
KPX T iacute -18
KPX T iogonek -18
KPX T o -92
KPX T oacute -92
KPX T ocircumflex -92
KPX T odieresis -92
KPX T ograve -92
KPX T ohungarumlaut -92
KPX T omacron -92
KPX T oslash -92
KPX T otilde -92
KPX T period -90
KPX T r -74
KPX T racute -74
KPX T rcaron -74
KPX T rcommaaccent -74
KPX T semicolon -74
KPX T u -92
KPX T uacute -92
KPX T ucircumflex -92
KPX T udieresis -92
KPX T ugrave -92
KPX T uhungarumlaut -92
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KPX Udieresis Aogonek -60
KPX Udieresis Aring -60
KPX Udieresis Atilde -60
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KPX Ugrave Adieresis -60
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KPX Ugrave Amacron -60
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KPX W Aring -120
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KPX W Ocircumflex -10
KPX W Odieresis -10
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KPX W Ohungarumlaut -10
KPX W Omacron -10
KPX W Oslash -10
KPX W Otilde -10
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KPX W amacron -65
KPX W aogonek -65
KPX W aring -65
KPX W atilde -65
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KPX W comma -92
KPX W e -65
KPX W eacute -65
KPX W ecaron -65
KPX W ecircumflex -65
KPX W edieresis -65
KPX W edotaccent -65
KPX W egrave -65
KPX W emacron -65
KPX W eogonek -65
KPX W hyphen -37
KPX W i -18
KPX W iacute -18
KPX W iogonek -18
KPX W o -75
KPX W oacute -75
KPX W ocircumflex -75
KPX W odieresis -75
KPX W ograve -75
KPX W ohungarumlaut -75
KPX W omacron -75
KPX W oslash -75
KPX W otilde -75
KPX W period -92
Open Source Used In Secure Workload 3.6.1.1 4444
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C -1 ; WX 456 ; N aacute ; B 50 -15 481 734 ;
C -1 ; WX 479 ; N plusminus ; B 32 0 507 506 ;
C -1 ; WX 479 ; N multiply ; B 41 0 526 506 ;
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C -1 ; WX 273 ; N onesuperior ; B 136 281 305 703 ;
C -1 ; WX 547 ; N Eacute ; B 71 0 625 929 ;
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C -1 ; WX 456 ; N mu ; B 20 -207 492 523 ;
C -1 ; WX 638 ; N Oacute ; B 86 -19 677 929 ;
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C -1 ; WX 547 ; N Yacute ; B 137 0 661 929 ;
C -1 ; WX 213 ; N brokenbar ; B 74 -19 265 737 ;
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KPX A C -30

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KPX B U -10

KPX C period -30
KPX C comma -30
KPX Pa -40
KPX PA -120

KPX QU -10

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KPX RW -30
KPX RV -50
KPX RU -40
KPX RT -30
KPX RO -20

KPX S period -20
KPX S comma -20

KPX Ty -120
KPX Tw -120
KPX Tu -120
KPX T semicolon -20
KPX Tr -120
KPX T period -120
KPX To -120
KPX Thyphen -140
KPX Te -120
KPX T comma -120
KPX T colon -20
KPX Ta -120
KPX TO -40
KPX TA -120

KPX U period -40
KPX U comma -40
KPX UA -40

KPX Vu -70
KPX V semicolon -40
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KPX Vo -80
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KPX Ve -80
KPX V comma -125
KPX V colon -40
KPX Va -70
KPX VO -40
KPX VG -40
KPX VA -80

KPX Wy -20
Open Source Used in Secure Workload 3.6.1.1 4455
Open Source Used In Secure Workload 3.6.1.1 4458
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CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex -10 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 0 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave -30 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute -20 0 ;
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EndComposites
EndFontMetrics
StartFontMetrics 2.0
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date: Fri Jan 17 15:08:52 1992
Comment UniqueID 37705
Comment VMusage 33078 39970
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FullName Utopia Bold
FamilyName Utopia
Weight Bold
ItalicAngle 0
IsFixedPitch false
FontBBox -155 -250 1249 916
UnderlinePosition -100
UnderlineThickness 50
Version 001.002
Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.Utopia is a registered
trademark of Adobe Systems Incorporated.
EncodingScheme AdobeStandardEncoding
CapHeight 692
XHeight 490
Ascender 742
Descender -230
StartCharMetrics 228
C 32 ; WX 210 ; N space ; B 0 0 0 0 ;
C 33 ; WX 278 ; N exclamation ; B 47 -12 231 707 ;
C 34 ; WX 473 ; N quotation dbl ; B 71 407 402 707 ;
C 35 ; WX 560 ; N numbersign ; B 14 0 547 668 ;
C 36 ; WX 560 ; N dollar ; B 38 -104 524 748 ;
C 37 ; WX 887 ; N percent ; B 40 -31 847 701 ;
C 38 ; WX 748 ; N ampersand ; B 45 -12 734 680 ;
C 39 ; WX 252 ; N quotation right ; B 40 387 212 707 ;
C 40 ; WX 365 ; N parenleft ; B 99 -135 344 699 ;
C 41 ; WX 365 ; N paren right ; B 21 -135 266 699 ;
C 42 ; WX 442 ; N asterisk ; B 40 315 402 707 ;
C 43 ; WX 600 ; N plus ; B 58 0 542 490 ;
C 44 ; WX 280 ; N comma ; B 40 -167 226 180 ;
C 45 ; WX 392 ; N hyphen ; B 65 203 328 298 ;
C 46 ; WX 280 ; N period ; B 48 -12 232 174 ;
C 47 ; WX 378 ; N slash ; B 34 -15 344 707 ;
Open Source Used In Secure Workload 3.6.1.1 4462
Open Source Used In Secure Workload 3.6.1.1  4464
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KPX A G -18
KPX A C -18

KPX B y -18
KPX B u -12
KPX B r -12
KPX B o -6
KPX B l -15
KPX B k -15
KPX B i -12
KPX B h -15
KPX B e -6
KPX B b -10
KPX B a -12
KPX B W -20
KPX B V -20
KPX B U -25
KPX B T -20

KPX C z -5
KPX C y -24
KPX C u -18
KPX C r -6
KPX C o -12
KPX C e -12
KPX C a -16
KPX C Q -6
KPX C O -6
KPX C G -6
KPX C C -6

KPX D u -12
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KPX D o -5
KPX D i -12
KPX D h -18
KPX D e -5
KPX D comma -40
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KPX D Y -60
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KPX D V -40

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KPX K G -36
KPX K C -36
KPX K A 20

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KPX L quotedblright -130
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KPX L j -6
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KPX L A 30

KPX M y -24
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KPX R t -25
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KPX R O -10
KPX R G -10
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KPX S t -24
KPX S r -10
KPX S quoteright -15
KPX S quotedblright -15
KPX S p -24
KPX S n -24
KPX S m -24
KPX S l -18
KPX S k -24
KPX S j -30
KPX S i -12
KPX S h -12
KPX S a -18

KPX T z -64
KPX T y -74
KPX T w -72
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KPX Y G -40
KPX Y C -40
KPX Y A -55

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KPX Z w -36
KPX Z u -6
KPX Z o -12
KPX Z i -12
KPX Z e -6
KPX Z a -6
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KPX Z O -18
KPX Z G -18
KPX Z C -18
KPX Z A 25

KPX a quotright -45
KPX a quotdbright -40

KPX b y -15
KPX b w -20
KPX b v -20
KPX b quotright -45
KPX b quotdbright -40
KPX b period -10
KPX b comma -10

KPX braceleft Y 64
KPX braceleft W 64
KPX braceleft V 64
KPX braceleft T 25
KPX braceleft J 50

KPX bracketleft Y 64
KPX bracketleft W 64
KPX bracketleft V 64
KPX bracketleft T 35
KPX bracketleft J 60

KPX c quotright -5

KPX colon space -20

KPX comma space -40
KPX comma quotright -100
KPX comma quotdbright -100
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Version 1.1

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# Seaborn colorblind palette
axes.prop_cycle: cycler('color', ['0072B2', '009E73', 'D55E00', 'CC79A7', 'F0E442', '56B4E9'])
patch.facecolor: 0072B2
Open Source Used In Secure Workload 3.6.1.1 4484
Open Source Used In Secure Workload 3.6.1.1 4490

EndKernPairs
EndKernData
StartComposites 58
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CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 223 231 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 223 231 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 215 231 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 223 231 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 223 231 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 188 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 231 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 231 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 231 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 231 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 2 231 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 2 231 ;
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CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 249 231 ;
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CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 227 231 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 227 231 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 227 231 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 227 243 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 96 231 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 255 231 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 247 231 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 223 231 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 223 231 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 203 231 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 191 231 ;
CC Zaron 2 ; PCC Z 0 0 ; PCC caron 179 231 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 84 20 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 72 20 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 72 20 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 60 20 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 72 20 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 72 12 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 97 20 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 85 20 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 73 20 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 73 20 ;
CC iacute 2 ; PCC i 0 0 ; PCC acute -23 20 ;
CC icircumflex 2 ; PCC i 0 0 ; PCC circumflex -23 20 ;
CC idieresis 2 ; PCC i 0 0 ; PCC dieresis -23 20 ;
CC igrave 2 ; PCC i 0 0 ; PCC grave -23 20 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 113 12 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 107 20 ;
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters
axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 6
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Open Source Used In Secure Workload 3.6.1.1 4511
Open Source Used In Secure Workload 3.6.1.1 4525
KPX Y O -30
KPX Y Oacute -30
KPX Y Ocircumflex -30
KPX Y Odieresis -30
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Open Source Used In Secure Workload 3.6.1.1  4562
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# Seaborn talk context
figure.figsize: 10.4, 7.15
axes.labelsize: 14.3
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legend.fontsize: 13

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#.8 = light_gray
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axes.labelcolor: .15
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image.cmap: Greys
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font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
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# Seaborn white parameters
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ytick.minor.size: 0

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$Id: LICENSE 2133 2007-11-28 02:46:28Z lechimp$
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C 41 ; WX 333 ; N parenright ; B -9 -207 337 733 ;
C 42 ; WX 389 ; N asterisk ; B 165 431 475 718 ;
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KPX b comma -40
Open Source Used In Secure Workload 3.6.1.1  4624
Open Source Used In Secure Workload 3.6.1.1 4629
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 0 136 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 121 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 0 126 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 0 121 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 0 121 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 0 136 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 0 121 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 0 126 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 30 136 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 30 121 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 0 121 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 0 136 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave -30 121 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 30 121 ;
CC Ycircumflex 2 ; PCC Y 0 0 ; PCC circumflex 0 121 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 0 136 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 0 136 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 0 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 0 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 0 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 0 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 0 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 0 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 0 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 0 0 ;
CC gcaron 2 ; PCC g 0 0 ; PCC caron -30 0 ;
CC iacute 2 ; PCC i 0 0 ; PCC acute 0 0 ;
CC icircumflex 2 ; PCC i 0 0 ; PCC circumflex -30 0 ;
CC idieresis 2 ; PCC i 0 0 ; PCC dieresis -30 0 ;
CC iggrave 2 ; PCC i 0 0 ; PCC grave -30 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 0 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 0 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 0 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 0 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 0 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 0 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 0 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute -10 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex -10 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 0 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave -30 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute -20 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis -10 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 10 0 ;
EndComposites
EndFontMetrics
# Set all colors to grayscale
# Note: strings of float values are interpreted by matplotlib as gray values.

lines.color: black
patch.facecolor: gray
patch.edgecolor: black
text.color: black

axes.facecolor: white
axes.edgecolor: black
axes.labelcolor: black
# black to light gray
axes.prop_cycle: cycler('color', ['0.00', '0.40', '0.60', '0.70'])

xtick.color: black
ytick.color: black

grid.color: black

figure.facecolor: 0.75
figure.edgecolor: white

image.cmap: gray

savefig.facecolor: white
savefig.edgecolor: white

StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:22 1990
Comment UniqueID 5000785
FontName CMMI10
EncodingScheme FontSpecific
FullName CMMI10
FamilyName Computer Modern
Weight Medium
ItalicAngle -14.04
IsFixedPitch false
Version 1.00A
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -32 -250 1048 750
CapHeight 683.333
XHeight 430.556
Ascender 694.444
Descender -194.444
Comment FontID CMMI
Comment DesignSize 10 (pts)
Comment The following are bogus kern pairs for TeX positioning of accents
StartKernData
StartKernPairs 166
KPX Gamma slash -55.556
KPX Gamma comma -111.111
KPX Gamma period -111.111
KPX Gamma tie 83.333
KPX Delta tie 166.667
KPX Theta tie 83.333
KPX Lambda tie 166.667
EndCharMetrics
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StartFontMetrics 2.0
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date: Fri Jan 17 13:15:45 1992
Comment UniqueID 37666
Comment VMusage 34143 41035
Open Source Used In Secure Workload 3.6.1.1 4648
Open Source Used In Secure Workload 3.6.1.1 4651
C -1 ; WX 453 ; N egrave ; B 45 -12 471 723 ;
C -1 ; WX 753 ; N Ocircumflex ; B 79 -15 754 876 ;
C -1 ; WX 604 ; N Thorn ; B 50 616 692 ;
C -1 ; WX 561 ; N atilde ; B 31 -12 563 682 ;
C -1 ; WX 794 ; N Udieresis ; B 131 -15 880 848 ;
C -1 ; WX 453 ; N ecircumflex ; B 45 -12 475 720 ;
EndCharMetrics
StartKernData
StartKernPairs 690

KPX A y -20
KPX A x 10
KPX A w -30
KPX A v -30
KPX A u -10
KPX A t -6
KPX A s 15
KPX A r -12
KPX A quotedright -110
KPX A quotedblright -110
KPX A q 10
KPX A p -12
KPX A o -10
KPX A n -18
KPX A m -18
KPX A l -18
KPX A j 6
KPX A h -6
KPX A d 10
KPX A c -6
KPX A b -6
KPX A a 12
KPX A Y -76
KPX A X -8
KPX A W -80
KPX A V -90
KPX A U -60
KPX A T -72
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B y -6
KPX B u -20
KPX B r -15
KPX B quotedright -40
KPX B quotedblright -30
KPX K a -6
KPX K Q -24
KPX K O -24
KPX K G -24
KPX K C -24

KPX L y -55
KPX L w -30
KPX L u -18
KPX L quoteright -110
KPX L quotedblright -110
KPX L 1 -16
KPX L j -18
KPX L i -18
KPX L a 10
KPX L Y -80
KPX L W -90
KPX L V -110
KPX L U -42
KPX L T -80
KPX L Q -48
KPX L O -48
KPX L G -48
KPX L C -48
KPX L A 30

KPX M y -18
KPX M u -24
KPX M quoteright 6
KPX M quotedblright 15
KPX M o -25
KPX M n -12
KPX M j -18
KPX M i -12
KPX M e -20
KPX M d -10
KPX M c -20
KPX M a -6

KPX N y -18
KPX N u -24
KPX N quoteright 10
KPX N quotedblright 10
KPX N o -25
KPX N i -12
KPX N e -20
KPX N a -22
KPX P E -30
KPX P A -75

KPX Q u -6
KPX Q quoteright -40
KPX Q quotedblright -50
KPX Q a -6
KPX Q Y -70
KPX Q X -12
KPX Q W -35
KPX Q V -60
KPX Q U -35
KPX Q T -36
KPX Q A -18

KPX R y -14
KPX R u -12
KPX R quoteright -30
KPX R quotedblright -20
KPX R o -12
KPX R hyphen -20
KPX R e -12
KPX R Y -50
KPX R W -30
KPX R V -40
KPX R U -40
KPX R T -30
KPX R Q -10
KPX R O -10
KPX R G -10
KPX R C -10
KPX R A -6

KPX S y -30
KPX S w -30
KPX S v -30
KPX S u -18
KPX S t -30
KPX S r -20
KPX S quoteright -38
KPX S quotedblright -30
KPX S p -18
KPX S n -24
KPX S m -24
KPX S l -30
KPX S k -24
KPX S j -25
KPX S i -30
Open Source Used In Secure Workload 3.6.1.1 4661
KPX bracketleft J 80
KPX c quotedright -20
KPX c quotedblright -20

KPX colon space -30
KPX comma space -40
KPX comma quotedright -80
KPX comma quotedblright -80

KPX d quotedright -12
KPX d quotedblright -12

KPX e x -10
KPX e w -10
KPX e quotedright -30
KPX e quotedblright -30

KPX f quotedright 110
KPX f quotedblright 110
KPX f period -20
KPX f parenright 100
KPX f comma -20
KPX f bracketright 90
KPX f braceright 90

KPX g y 30
KPX g p 12
KPX g f 42

KPX h quotedright -80
KPX h quotedblright -80

KPX j quotedright -20
KPX j quotedblright -20
KPX j period -35
KPX j comma -20

KPX k quotedright -30
KPX k quotedblright -50

KPX m quotedright -80
KPX m quotedblright -80

KPX n quotedright -80
KPX n quotedblright -80
Comment The following are bogus kern pairs for TeX positioning of accents
StartKernData
StartKernPairs 26
KPX A prime 194.444
KPX B prime 138.889
KPX C prime 138.889
KPX D prime 83.333
KPX E prime 111.111
KPX F prime 111.111
KPX G prime 111.111
KPX H prime 111.111
KPX I prime 27.778
KPX J prime 166.667
KPX K prime 55.556
KPX L prime 138.889
KPX M prime 138.889
KPX N prime 83.333
KPX O prime 111.111
KPX P prime 83.333
KPX Q prime 111.111
KPX R prime 83.333
KPX S prime 138.889
KPX T prime 27.778
KPX U prime 83.333
KPX V prime 27.778
KPX W prime 83.333
KPX X prime 138.889
KPX Y prime 83.333
KPX Z prime 138.889
EndKernPairs
EndKernData
EndFontMetrics
Module creating PyQt4 form dialogs/layouts to edit various type of parameters

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------------------------------------------
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# a small set of changes that will make your plotting FAST (1).
#
# (1) in some cases

# Maximally simplify lines.
path.simplify: True
path.simplify_threshold: 1.0
# chunk up large lines into smaller lines!
# simple trick to avoid those pesky O(>n) algorithms!
agg.path.chunksize: 10000
### Classic matplotlib plotting style as of v1.5

### LINES
# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
lines.linewidth : 1.0  # line width in points
lines.linestyle : -    # solid line
lines.color     : b    # has no affect on plot(); see axes.prop_cycle
lines.markersize: 6    # the default marker
lines.markeredgewidth : 0.5  # the line width around the marker symbol
lines.markersize : 6    # markersize, in points
lines.dash_capstyle : butt # butt|round|projecting
lines.dash_joinstyle : round  # miter|round|bevel
lines.solid_capstyle : projecting # butt|round|projecting
lines.antialiased : True   # render lines in antialiased (no jaggies)
lines.dashed_pattern : 6, 6
lines.dashdot_pattern : 3, 5, 1, 5
lines.dotted_pattern : 1, 3
lines.scale_dashes: False

### Marker props
markers.fillstyle: full

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
# circles.  See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
patch.linewidth : 1.0  # edge width in points
patch.facecolor : b
patch.force_edgecolor : True
patch.edgecolor : k
patch.antialiased : True  # render patches in antialiased (no jaggies)

hatch.color : k
hatch.linewidth : 1.0

### FONT
#
# font properties used by text.Text.  See
# http://matplotlib.org/api/font_manager_api.html for more
# information on font properties. The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
#
# The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.
#
font.family : sans-serif
font.style : normal
font.variant : normal
font.weight : normal
font.stretch : normal

# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller
font.size : 12.0
font.serif : DejaVu Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman, Bookman,
Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
font.sans-serif: DejaVu Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif
font.cursive : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
font.fantasy : Comic Sans MS, Chicago, Charcoal, ImpactWestern, Humor Sans, fantasy
font.monospace : DejaVu Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT
# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties

text.color : k

### LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex
text.usetex : False # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list
text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.
text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings
text.latex.preview : False
text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.
text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
mathtext.cal : cursive
mathtext.rm : serif
mathtext.tt : monospace
mathtext.it : serif:italic
mathtext.bf : serif:bold
mathtext.sf : sans\-serif
mathtext.fontset : cm # Should be ‘cm’ (Computer Modern), 'stix',
     # ‘stixsans’ or ‘custom’
mathtext.fallback_to_cm : True  # When True, use symbols from the Computer Modern
    # fonts when a symbol can not be found in one of
    # the custom math fonts.

mathtext.default : it # The default font to use for math.
    # Can be any of the LaTeX font names, including
    # the special name "regular" for the same font
    # used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default fontsizes for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
axes.facecolor      : w       # axes background color
axes.edgecolor      : k       # axes edge color
axes.linewidth      : 1.0     # edge linewidth
axes.grid           : False   # display grid or not
axes.grid.which     : major
axes.titlepad       : 5.0     # pad between axes and title in points
axes.titleweight    : normal  # font weight for axes title
axes.labelsize      : medium  # fontsize of the x any y labels
axes.labelpad       : 5.0     # space between label and axis
axes.labelweight    : normal  # weight of the x and y labels
axes.labelcolor     : k
axes.axisbelow      : False   # whether axis gridlines and ticks are below
    # the axes elements (lines, text, etc)
axes.formatter.limits : -7, 7 # use scientific notation if log10
# of the axis range is smaller than the
# first or larger than the second
axes.formatter.use_locale : False  # When True, format tick labels
# according to the user's locale.
# For example, use ',' as a decimal
# separator in the fr_FR locale.
axes.formatter.use_mathtext : False  # When True, use mathtext for scientific
# notation.
axes.formatter.useoffset : True  # If True, the tick label formatter
# will default to labeling ticks relative
# to an offset when the data range is very
# small compared to the minimum absolute
# value of the data.
axes.formatter.offset_threshold : 2  # When useoffset is True, the offset
# will be used when it can remove
# at least this number of significant
# digits from tick labels.

axes.unicode_minus : True  # use unicode for the minus symbol
# rather than hyphen. See
# http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
axes.prop_cycle : cycler('color', 'bgrcmyk')
# color cycle for plot lines
# as list of string colorspecs:
# single letter, long name, or
# web-style hex
axes.autolimit_mode : round_numbers
axes.xmargin : 0  # x margin. See `axes.Axes.margins`
axes.ymargin : 0  # y margin See `axes.Axes.margins`
axes.spines.bottom : True
axes.spines.left : True
axes.spines.right : True
axes.spines.top : True
polaraxes.grid : True  # display grid on polar axes
axes3d.grid : True  # display grid on 3d axes

date.autoformatter.year : %Y
date.autoformatter.month : %b %Y
date.autoformatter.day : %b %d %Y
date.autoformatter.hour : %H:%M:%S
date.autoformatter.minute : %H:%M:%S.%f
date.autoformatter.second : %H:%M:%S.%f
date.autoformatter.microsecond : %H:%M:%S.%f

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick

xtick.top : True  # draw ticks on the top side
xtick.bottom : True   # draw ticks on the bottom side
xtick.major.size : 4    # major tick size in points
xtick.minor.size : 2    # minor tick size in points
xtick.minor.visible : False
xtick.major.width : 0.5  # major tick width in points
xtick.minor.width : 0.5  # minor tick width in points
xtick.major.pad : 4     # distance to major tick label in points
xtick.minor.pad : 4     # distance to the minor tick label in points
xtick.color : k        # color of the tick labels
xtick.labelsize : medium # fontsize of the tick labels
xtick.direction : in    # direction: in, out, or inout
xtick.major.top : True  # draw x axis top major ticks
xtick.major.bottom : True  # draw x axis bottom major ticks
xtick.minor.top : True  # draw x axis top minor ticks
xtick.minor.bottom : True  # draw x axis bottom minor ticks

ytick.left : True   # draw ticks on the left side
ytick.right : True  # draw ticks on the right side
ytick.major.size : 4    # major tick size in points
ytick.minor.size : 2    # minor tick size in points
ytick.minor.visible : False
ytick.major.width : 0.5  # major tick width in points
ytick.minor.width : 0.5  # minor tick width in points
ytick.major.pad : 4     # distance to major tick label in points
ytick.minor.pad : 4     # distance to the minor tick label in points
ytick.color : k        # color of the tick labels
ytick.labelsize : medium # fontsize of the tick labels
ytick.direction : in    # direction: in, out, or inout
ytick.major.left : True  # draw y axis left major ticks
ytick.major.right : True  # draw y axis right major ticks
ytick.minor.left : True  # draw y axis left minor ticks
ytick.minor.right : True  # draw y axis right minor ticks

### GRIDS
grid.color : k        # grid color
grid.linestyle :   : # dotted
grid.linewidth :   0.5 # in points
grid.alpha :   1.0   # transparency, between 0.0 and 1.0

### Legend
legend.fancybox : False # if True, use a rounded box for the
                      # legend, else a rectangle
legend.loc : upper right
legend.numpoints : 2     # the number of points in the legend line
legend.fontsize : large
legend.borderpad : 0.4    # border whitespace in fontsize units
legend.markerscale : 1.0   # the relative size of legend markers vs. original
# the following dimensions are in axes coords
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### FIGURE

# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
generate.figure.titlesize : medium   # size of the figure title
generate.figure.titleweight : normal  # weight of the figure title
generate.figure.figsize   : 8, 6    # figure size in inches
generate.figure.dpi       : 80      # figure dots per inch
generate.figure.facecolor : 0.75    # figure facecolor; 0.75 is scalar gray
generate.figure.edgecolor : 'w'      # figure edgecolor
generate.figure.autolayout : False  # When True, automatically adjust subplot parameters to make the plot fit the figure

generate.figure.frameon : True

# The figure subplot parameters. All dimensions are a fraction of the figure width or height

generate.figure.subplot.left    : 0.125  # the left side of the subplots of the figure
generate.figure.subplot.right   : 0.9    # the right side of the subplots of the figure
generate.figure.subplot.bottom  : 0.1    # the bottom of the subplots of the figure
generate.figure.subplot.top     : 0.9    # the top of the subplots of the figure

generate.figure.subplot.wspace  : 0.2    # the amount of width reserved for blank space between subplots,
                                     # expressed as a fraction of the average axis width

generate.figure.subplot.hspace  : 0.2    # the amount of height reserved for white space between subplots,
                                     # expressed as a fraction of the average axis height

### IMAGES

image.aspect : equal   # equal | auto | a number
draw.imagem.interpolation  : bilinear  # see help(imshow) for options
draw.imagem.cmap   : jet   # gray | jet etc...
draw.imagem.lut    : 256   # the size of the colormap lookup table
draw.imagem.origin : upper   # lower | upper
draw.imagem.resample : False

draw.imagem.composite_image : True

### CONTOUR PLOTS
contour.negative_linestyle : dashed | solid
contour.corner_mask : True

# errorbar props
errorbar.capsize: 3

# scatter props
scatter.marker: o

### Boxplots
boxplot.bootstrap: None
boxplot.boxprops.color: b
boxplot.boxprops.linestyle: -
boxplot.boxprops.linewidth: 1.0
boxplot.capprops.color: k
boxplot.capprops.linestyle: -
boxplot.capprops.linewidth: 1.0
boxplot.flierprops.color: b
boxplot.flierprops.linestyle: none
boxplot.flierprops.linewidth: 1.0
boxplot.flierprops.marker: +
boxplot.flierprops.markeredgewidth: k
boxplot.flierprops.markercolor: auto
boxplot.flierprops.markersize: 6.0
boxplot.meanline: False
boxplot.meanprops.color: r
boxplot.meanprops.linestyle: -
boxplot.meanprops.linewidth: 1.0
boxplot.medianprops.color: r
boxplot.medianprops.marker: s
boxplot.medianprops.markeredgewidth: r
boxplot.medianprops.markeredgewidth: k
boxplot.medianprops.markersize: 6.0
boxplot.medianprops.linestyle: -
boxplot.medianprops.linewidth: 1.0
boxplot.notch: False
boxplot.patchartist: False
boxplot.showbox: True
boxplot.showcaps: True
boxplot.showfliers: True
boxplot.showmeans: False
boxplot.vertical: True
boxplot.whiskerprops.color: b
boxplot.whiskerprops.linestyle: --
boxplot.whiskerprops.linewidth: 1.0
boxplot.whiskers: 1.5

### Agg rendering
### Warning: experimental, 2008/10/10

agg.path.chunksize : 0           # 0 to disable; values in the range
# 10000 to 100000 can improve speed slightly
# and prevent an Agg rendering failure
# when plotting very large data sets,
# especially if they are very gappy.
# It may cause minor artifacts, though.
# A value of 20000 is probably a good
# starting point.

### SAVING FIGURES

path.simplify : True   # When True, simplify paths by removing "invisible"
# points to reduce file size and increase rendering
# speed

path.simplify_threshold : 0.1111111111111111
# The threshold of similarity below which
# vertices will be removed in the simplification
# process

path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
# the nearest pixel when certain criteria are met. When False,
# paths will never be snapped.

path.sketch : None # May be none, or a 3-tuple of the form (scale, length,
# randomness).
# *scale* is the amplitude of the wiggle
# perpendicular to the line (in pixels). *length*
# is the length of the wiggle along the line (in
# pixels). *randomness* is the factor by which
# the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white

savefig.dpi         : 100      # figure dots per inch
savefig.facecolor   : w        # figure facecolor when saving
savefig.edgecolor   : w        # figure edgecolor when saving
savefig.format      : png      # png, ps, pdf, svg
savefig.bbox        : standard # 'tight' or 'standard'.
# 'tight' is incompatible with pipe-based animation
# backends but will workd with temporary file based ones:
# e.g. setting animation.writer to ffmpeg will not work,
# use ffmpeg_file instead
savefig.pad_inches  : 0.1      # Padding to be used when bbox is set to 'tight'
savefig.jpeg_quality: 95       # when a jpeg is saved, the default quality parameter.
savefig.transparent : False    # setting that controls whether figures are saved with a
# transparent background by default

savefig.frameon : True
savefig.orientation : portrait

nbagg.transparent: True
# ps backend params
ps.papersize : letter  # auto, letter, legal, ledger, A0-A10, B0-B10
ps.useafm      : False  # use of afm fonts, results in small files
ps.usedistiller: False  # can be: None, ghostscript or xpdf
  # Experimental: may produce smaller files.
  # xpdf intended for production of publication quality files,
  # but requires ghostscript, xpdf and ps2eps
ps.distiller.res: 6000   # dpi
ps.fonttype    : 3      # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
pdf.compression: 6 # integer from 0 to 9
  # 0 disables compression (good for debugging)
pdf.fonttype   : 3      # Output Type 3 (Type3) or Type 42 (TrueType)
pdf.inheritcolor: False
pdf.use14corefonts : False

# pgf backend params
pgf.debug       : False
pgf.texsystem   : xelatex
pgf.rcfonts     : True
pgf.preamble    :

# svg backend params
svg.image_inline : True  # write raster image data directly into the svg file
svg.fonttype    : path   # How to handle SVG fonts:
  # ’none’: Assume fonts are installed on the machine where the SVG will be viewed.
  # ’path’: Embed characters as paths -- supported by most SVG renderers
  # ’svgfont’: Embed characters as SVG fonts -- supported only by Chrome,
  # Opera and Safari

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.

# You can access the verbose instance in your code
# from matplotlib import verbose.
verbose.level : silent    # one of silent, helpful, debug, debug-annoying
verbose.fileo : sys.stdout # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don’t need a key-map. (i.e., fullscreen : ”)

keymap.fullscreen : f, ctrl+f    # toggling
keymap.home : h, r, home        # home or reset mnemonic
keymap.back : left, c, backspace # forward / backward keys to enable
keymap.forward : right, v       # left handed quick navigation
keymap.pan : p                   # pan mnemonic
keymap.zoom : o                  # zoom mnemonic
keymap.save : s, ctrl+s          # saving current figure
keymap.quit : ctrl+w, cmd+w      # close the current figure
keymap.grid : g                  # switching on/off a grid in current axes
keymap.yscale : l                # toggle scaling of y-axes (‘log’/’linear’)
keymap.xscale : k, L             # toggle scaling of x-axes (‘log’/’linear’)
keymap.all_axes : a              # enable all axes

###ANIMATION settings
animation.writer : ffmpeg        # MovieWriter ‘backend’ to use
animation.codec : mpeg4          # Codec to use for writing movie
animation.bitrate: -1            # Controls size/quality tradeoff for movie.
# -1 implies let utility auto-determine
animation.frame_format: png      # Controls frame format used by temp files
animation.ffmpeg_path: ffmpeg    # Path to ffmpeg binary. Without full path
# $PATH is searched
animation.ffmpeg_args:           # Additional arguments to pass to ffmpeg
animation.avconv_path: avconv    # Path to avconv binary. Without full path
# $PATH is searched
animation.avconv_args:           # Additional arguments to pass to avconv
animation.mencoder_path: mencoder
# Path to mencoder binary. Without full path
# $PATH is searched
animation.mencoder_args:         # Additional arguments to pass to mencoder
animation.convert_path: convert  # Path to ImageMagick’s convert binary.
# On Windows use the full path since convert
# is also the name of a system tool.
animation.convert_args:
animation.html: none

_internal.classic_mode: True
# Seaborn dark palette
axes.prop_cycle: cycler('color', ['001C7F', '017517', '8C0900', '7600A1', 'B8860B', '006374'])
patch.facecolor: 001C7F
### Classic matplotlib plotting style as of v1.5

#### LINES

# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
lines.linewidth : 1.0  # line width in points
lines.linestyle : -   # solid line
lines.color      : b   # has no affect on plot(); see axes.prop_cycle
lines.marker     : None # the default marker
lines.markeredgewidth : 0.5  # the line width around the marker symbol
lines.markersize : 6   # markersize, in points
lines.dash_joinstyle : round  # miter|round|bevel
lines.dash_capstyle : butt  # butt|round|projecting
lines.solid_joinstyle : round  # miter|round|bevel
lines.solid_capstyle : projecting # butt|round|projecting
lines.antialiased : True  # render lines in antialiased (no jaggies)
lines.dashed_pattern : 6, 6
lines.dashdot_pattern : 3, 5, 1, 5
lines.dotted_pattern : 1, 3
lines.scale_dashes: False

#### Marker props

markers.fillstyle: full

#### PATCHES

# Patches are graphical objects that fill 2D space, like polygons or
# circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
patch.linewidth   : 1.0  # edge width in points
patch.edgecolor   : k
patch.force_edgecolor : True
patch.facecolor   : b
patch.antialiased : True  # render patches in antialiased (no jaggies)

hatch.color       : k
hatch.linewidth   : 1.0

hist.bins         : 10
### FONT
#
# font properties used by text.Text.  See
# http://matplotlib.org/api/font_manager_api.html for more
# information on font properties.  The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier).  Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them.  When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# The font.style property has three values: normal (or roman), italic
# or oblique.  The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps.  For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
#
# The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900.  Normal is the same as
# 400, and bold is 700.  bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower.  This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.
#
font.family         : sans-serif
font.style          : normal
font.variant        : normal
font.weight         : normal
font.stretch        : normal

# note that font.size controls default text sizes.  To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller
font.size           : 12.0
font.sans-serif: DejaVu Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif
font.cursive: Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
font.fantasy: Comic Sans MS, Chicago, Charcoal, ImpactWestern, Humor Sans, fantasy
font.monospace: DejaVu Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT
# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties

text.color : k

### LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex
text.usetex : False # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list
text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.
text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings
text.latex.preview : False

text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
### AXES

# default face and edge color, default tick sizes,
# default fontsize for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes

axes.facecolor : w  # axes background color
axes.edgecolor : k  # axes edge color
axes.linewidth : 1.0  # edge linewidth
axes.grid : False  # display grid or not
axes.grid.which : major
axes.grid.axis : both
axes.titlesize : large  # font size of the axes title
axes.titlepad : 5.0  # pad between axes and title in points
axes.titleweight : normal  # font weight for axes title
axes.labelsize : medium  # fontsize of the x and y labels
axes.labelpad : 5.0  # space between label and axis
axes.labelweight : normal  # weight of the x and y labels
axes.labelcolor : k
axes.axisbelow : False  # whether axis gridlines and ticks are below
                # the axes elements (lines, text, etc)

axes.formatter.limits : -7, 7  # use scientific notation if log10
                        # of the axis range is smaller than the
                        # first or larger than the second
axes.formatter.use_locale : False  # When True, format tick labels
                              # according to the user's locale.
                              # For example, use ',' as a decimal
                              # separator in the fr_FR locale.
axes.formatter.use_mathtext : False  # When True, use mathtext for scientific
                                  # notation.
axes.formatter.useoffset : True  # If True, the tick label formatter
                                # will default to labeling ticks relative
                                # to an offset when the data range is very
                                # small compared to the minimum absolute
                                # value of the data.
axes.formatter.offset_threshold : 2  # When useoffset is True, the offset
                                 # will be used when it can remove
                                 # at least this number of significant
                                 # digits from tick labels.

axes.unicode_minus : True  # use unicode for the minus symbol
                     # rather than hyphen. See
                     # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
axes.prop_cycle : cycler('color', 'bgrcmyk')
                 # color cycle for plot lines
                 # as list of string colorspecs:
                 # single letter, long name, or
                 # web-style hex
axes.autolimit_mode : round_numbers
axes.xmargin : 0  # x margin. See `axes.Axes.margins`
axes.ymargin : 0  # y margin See `axes.Axes.margins`
axes.spines.bottom : True
axes.spines.left : True
axes.spines.right : True
axes.spines.top : True
polaraxes.grid : True  # display grid on polar axes
axes3d.grid : True  # display grid on 3d axes

date.autoformatter.year : %Y

date.autoformatter.month : %b %Y

date.autoformatter.day : %b %d %Y

date.autoformatter.hour : %H:%M:%S

date.autoformatter.minute : %H:%M:%S.%f

date.autoformatter.second : %H:%M:%S.%f

date.autoformatter.microsecond : %H:%M:%S.%f

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### TICKS

# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick

```
xтик.top            : True   # draw ticks on the top side
xтик.bottom         : True   # draw ticks on the bottom side
xтик.major.size     : 4      # major tick size in points
xтик.minor.size     : 2      # minor tick size in points
xтик.minor.visible  : False
xтик.major.width    : 0.5    # major tick width in points
xтик.minor.width    : 0.5    # minor tick width in points
xтик.major.top      : True   # draw x axis top major ticks
xтик.major.bottom   : True   # draw x axis bottom major ticks
xтик.minor.top      : True   # draw x axis top minor ticks
xтик.minor.bottom   : True   # draw x axis bottom minor ticks
xтик.alignment : center

yтик.left           : True   # draw ticks on the left side
yтик.right          : True   # draw ticks on the right side
yтик.major.size     : 4      # major tick size in points
yтик.minor.size     : 2      # minor tick size in points
yтик.minor.visible  : False
yтик.major.width    : 0.5    # major tick width in points
yтик.minor.width    : 0.5    # minor tick width in points
yтик.major.left     : True   # draw y axis left major ticks
yтик.major.right    : True   # draw y axis right major ticks
yтик.minor.left     : True   # draw y axis left minor ticks
yтик.minor.right    : True   # draw y axis right minor ticks
yтик.alignment : center

### GRIDS

```
grid.color       : k       # grid color
grid.linestyle   : :       # dotted
grid.linewidth   : 0.5     # in points
grid.alpha       : 1.0     # transparency, between 0.0 and 1.0
```

### Legend

```
legend.fancybox      : False  # if True, use a rounded box for the
# legend, else a rectangle
```
legend.loc : upper right
legend.numpoints : 2  # the number of points in the legend line
legend.fontsize : large
legend.borderpad : 0.4  # border whitespace in fontsize units
legend.markerscale : 1.0  # the relative size of legend markers vs. original
# the following dimensions are in axes coords
legend.labelsSpacing : 0.5  # the vertical space between the legend entries in fraction of fontsize
legend.handleLength : 2.  # the length of the legend lines in fraction of fontsize
legend.handleHeight : 0.7  # the height of the legend handle in fraction of fontsize
legend.handleTextpad : 0.8  # the space between the legend line and legend text in fraction of fontsize
legend.borderAxesPad : 0.5  # the border between the axes and legend edge in fraction of fontsize
legend.shadow : False
legend.frameOn : True  # whether or not to draw a frame around legend
legend.frameAlpha : None  # opacity of legend frame
legend.scatterPoints : 3 # number of scatter points
legend.faceColor : inherit  # legend background color (when 'inherit' uses axes.facecolor)
legend.edgeColor : inherit  # legend edge color (when 'inherit' uses axes.edgecolor)

### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
figure.titlesize : medium  # size of the figure title
figure.titleWeight : normal  # weight of the figure title
figure.figsize : 8, 6  # figure size in inches
figure.dpi : 80  # figure dots per inch
figure.faceColor : 0.75  # figure facecolor; 0.75 is scalar gray
figure.edgeColor : w  # figure edgecolor
figure.autolayout : False  # When True, automatically adjust subplot
# parameters to make the plot fit the figure
figure.frameOn : True

# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
figure.subplot.left : 0.125  # the left side of the subplots of the figure
figure.subplot.right : 0.9  # the right side of the subplots of the figure
figure.subplot.bottom : 0.1  # the bottom of the subplots of the figure
figure.subplot.top : 0.9  # the top of the subplots of the figure
figure.subplot.wspace : 0.2  # the amount of width reserved for blank space between subplots,
# expressed as a fraction of the average axis width
figure.subplot.hspace : 0.2  # the amount of height reserved for white space between subplots,
# expressed as a fraction of the average axis height

### IMAGES
image.aspect : equal  # equal | auto | a number
image.interpolation : bilinear  # see help(imshow) for options
image.cmap : jet  # gray | jet etc...
image.lut : 256  # the size of the colormap lookup table
image.origin : upper  # lower | upper
image.resample : False
image.composite_image : True

### CONTOUR PLOTS
contour.negative_linestyle : dashed  # dashed | solid
contour.corner_mask : True

# errorbar props
errorbar.capsize: 3

# scatter props
scatter.marker: o

### Boxplots
boxplot.bootstrap: None
boxplot.boxprops.color: b
boxplot.boxprops.linestyle: -
boxplot.boxprops.linewidth: 1.0
boxplot.capprops.color: k
boxplot.capprops.linestyle: -
boxplot.capprops.linewidth: 1.0
boxplot.flierprops.color: b
boxplot.flierprops.linestyle: none
boxplot.flierprops.linewidth: 1.0
boxplot.flierprops.marker: +
boxplot.flierprops.markeredgewidthcolor: k
boxplot.flierprops.markeredgecolor: b
boxplot.flierprops.markersize: 6.0
boxplot.meanline: False
boxplot.meanprops.color: r
boxplot.meanprops.linestyle: -
boxplot.meanprops.linewidth: 1.0
boxplot.medianprops.color: r
boxplot.medianprops.linestyle: 
boxplot.medianprops.linewidth: 1.0
boxplot.meanprops.marker: s
boxplot.meanprops.markeredgecolor: r
boxplot.meanprops.markercolor: k
boxplot.meanprops.markersize: 6.0
boxplot.medianprops.linestyle: -
boxplot.medianprops.linewidth: 1.0
boxplot.notch: False
boxplot.patchartist: False
boxplot.showbox: True
boxplot.showcaps: True
boxplot.showfliers: True
boxplot.showmeans: False
boxplot.vertical: True
boxplot.whiskerprops.color: b
boxplot.whiskerprops.linestyle: --
boxplot.whiskerprops.linewidth: 1.0
boxplot.whiskers: 1.5

### Agg rendering
### Warning: experimental, 2008/10/10
agg.path.chunksize : 0           # 0 to disable; values in the range
    # 10000 to 100000 can improve speed slightly
    # and prevent an Agg rendering failure
    # when plotting very large data sets,
    # especially if they are very gappy.
    # It may cause minor artifacts, though.
    # A value of 20000 is probably a good
    # starting point.

### SAVING FIGURES
path.simplify : True   # When True, simplify paths by removing "invisible"
    # points to reduce file size and increase rendering
    # speed
path.simplify_threshold : 0.1111111111111111
    # The threshold of similarity below which
    # vertices will be removed in the simplification
    # process
path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
    # the nearest pixel when certain criteria are met. When False,
    # paths will never be snapped.
path.sketch : None # May be none, or a 3-tuple of the form (scale, length,
    # randomness).
    # *scale* is the amplitude of the wiggle
    # perpendicular to the line (in pixels). *length*
    # is the length of the wiggle along the line (in
    # pixels). *randomness* is the factor by which
    # the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
savefig.dpi         : 100      # figure dots per inch
savefig.facecolor   : w        # figure facecolor when saving
savefig.edgecolor   : w        # figure edgecolor when saving
savefig.format      : png      # png, ps, pdf, svg
savefig.bbox        : standard # 'tight' or 'standard'.
    # 'tight' is incompatible with pipe-based animation
    # backends but will work with temporary file based ones:
    # e.g. setting animation.writer to ffmpeg will not work,
    # use ffmpeg_file instead
savefig.pad_inches  : 0.1      # Padding to be used when bbox is set to 'tight'
savefig.jpeg_quality: 95       # when a jpeg is saved, the default quality parameter.
savefig.transparent : False  # setting that controls whether figures are saved with a
       # transparent background by default
savefig.frameon : True
savefig.orientation : portrait

nbagg.transparent: True

# ps backend params
ps.papersize      : letter  # auto, letter, legal, ledger, A0-A10, B0-B10
ps.useafm         : False    # use of afm fonts, results in small files
ps.usedistiller   : False    # can be: None, ghostscript or xpdf
                          # Experimental: may produce smaller files.
                          # xpdf intended for production of publication quality files,
                          # but requires ghostscript, xpdf and ps2eps
ps.distiller.res  : 6000     # dpi
ps.fonttype       : 3       # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
pdf.compression   : 6       # integer from 0 to 9
                          # 0 disables compression (good for debugging)
pdf.fonttype      : 3       # Output Type 3 (Type3) or Type 42 (TrueType)
pdf.inheritcolor  : False
pdf.use14corefonts : False

# pgf backend params
pgf.debug           : False
pgf.texsystem       : xelatex
pgf.rcfonts         : True
pgf.preamble        :

# svg backend params
svg.image_inline : True    # write raster image data directly into the svg file
svg.fonttype : path       # How to handle SVG fonts:
                          # 'none': Assume fonts are installed on the machine where the SVG will be viewed.
                          # 'path': Embed characters as paths -- supported by most SVG renderers
                          # 'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
                          # Opera and Safari

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
verbose.level : silent # one of silent, helpful, debug, debug-annoying
verbose.fileo : sys.stdout # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don’t need a key-map. (i.e., fullscreen : ”)

keymap.fullscreen : f, ctrl+f    # toggling
keymap.home : h, r, home         # home or reset mnemonic
keymap.back : left, c, backspace # forward / backward keys to enable
keymap.forward : right, v        # left handed quick navigation
keymap.pan : p                    # pan mnemonic
keymap.zoom : o                   # zoom mnemonic
keymap.save : s, ctrl+s           # saving current figure
keymap.quit : ctrl+w, cmd+w       # close the current figure
keymap.grid : g                    # switching on/off a grid in current axes
keymap.yscale : l                 # toggle scaling of y-axes ('log'/'linear')
keymap.xscale : k, L              # toggle scaling of x-axes ('log'/'linear')
keymap.all_axes : a                # enable all axes

###ANIMATION settings
animation.writer : ffmpeg         # MovieWriter ‘backend’ to use
animation.codec : mpeg4           # Codec to use for writing movie
animation.bitrate: -1              # Controls size/quality tradeoff for movie.
                                        # -1 implies let utility auto-determine
animation.frame_format: png        # Controls frame format used by temp files
animation.ffmpeg_path: ffmpeg      # Path to ffmpeg binary. Without full path
                                        # SPATH is searched
animation.ffmpeg_args:            # Additional arguments to pass to ffmpeg
animation.avconv_path: avconv     # Path to avconv binary. Without full path
                                        # SPATH is searched
animation.avconv_args:            # Additional arguments to pass to avconv
animation.mencoder_path: mencoder  # Path to mencoder binary. Without full path
                                        # SPATH is searched
animation.mencoder_args:          # Additional arguments to pass to mencoder
animation.convert_path: convert    # Path to ImageMagick’s convert binary.
                                        # On Windows use the full path since convert
                                        # is also the name of a system tool.
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KPX y period -100
KPX y o -30
KPX y e -20
KPX y comma -100
KPX y c -35
KPX y a -30
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 192 170 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 132 170 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 152 170 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 192 170 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 215 135 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 162 170 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 82 170 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 22 170 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 42 170 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 82 170 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -13 170 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -98 170 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -78 170 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -63 170 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 162 170 ;
KPX T a -80
KPX T O -40
KPX T A -90

KPX U period -30
KPX U comma -30
KPX U A -50

KPX V u -60
KPX V semicolon -40
KPX V period -120
KPX V o -90
KPX V hyphen -80
KPX V e -50
KPX V comma -120
KPX V colon -40
KPX V a -60
KPX V O -50
KPX V G -50
KPX V A -80

KPX W y -20
KPX W u -45
KPX W semicolon -10
KPX W period -80
KPX W o -60
KPX W hyphen -40
KPX W e -35
KPX W comma -80
KPX W colon -10
KPX W a -40
KPX W O -20
KPX W A -60

KPX Y u -100
KPX Y semicolon -50
KPX Y period -100
KPX Y o -100
KPX Y e -80
KPX Y comma -100
KPX Y colon -50
KPX Y a -90
KPX Y O -70
KPX Y A -110

KPX a y -20
KPX a w -15
KPX a v -15
KPX K u -24
KPX K o -32
KPX K e -32
KPX K O -40

KPX L y -24
KPX L quoteright -130
KPX L quotedblright -114
KPX L Y -114
KPX L W -56
KPX L V -89
KPX L T -89

KPX O period -32
KPX O comma -32
KPX O Y -56
KPX O X -48
KPX O W -24
KPX O V -40
KPX O T -32
KPX O A -15

KPX P period -147
KPX P o -40
KPX P e -40
KPX P comma -147
KPX P a -32
KPX P A -97

KPX Q U -7

KPX R Y -40
KPX R W -24
KPX R V -40
KPX R U -32
KPX R T -24
KPX R O -15

KPX S period -15
KPX S comma -15

KPX T y -97
KPX T w -97
KPX T u -97
KPX T semicolon -15
KPX T r -97
KPX T period -97
KPX T o -97
KPX quotelleft quotelleft -46

KPX quoteright space -56
KPX quoteright s -40
KPX quoteright r -40
KPX quoteright quoteright -46
KPX quoteright d -40

KPX r y 25
KPX r v 25
KPX r u 12
KPX r t 33
KPX r semicolon 25
KPX r period -40
KPX r p 25
KPX r n 21
KPX r m 21
KPX r l 12
KPX r k 12
KPX r i 12
KPX r comma -40
KPX r colon 25
KPX r a -7

KPX s w -24
KPX s period -11
KPX s comma -11

KPX semicolon space -40

KPX space quotelleft -48
KPX space quotedblleft -24
KPX space Y -73
KPX space W -32
KPX space V -40
KPX space T -40

KPX v period -65
KPX v o -20
KPX v e -20
KPX v comma -65
KPX v a -20

KPX w period -48
KPX w o -7
KPX w e -7
KPX w comma -48

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Open Source Used In Secure Workload 3.6.1.1 4740
KPX w a -11

KPX x e -24

KPX y period -81
KPX y o -15
KPX y e -15
KPX y comma -81
KPX y a -15

KPX z o -11
KPX z e -11
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 137 195 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 137 195 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 137 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 137 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 137 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 137 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 137 195 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 137 195 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 137 195 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 137 195 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -22 195 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -22 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -22 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -22 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 168 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 183 195 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 183 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 183 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 183 195 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 183 195 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 137 195 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 160 195 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 160 195 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 160 195 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 160 195 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 137 195 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 137 195 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 114 195 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 92 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -22 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -22 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -22 0 ;
CC igraeve 2 ; PCC dotlessi 0 0 ; PCC grave -22 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 84 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 92 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 92 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 92 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 92 0 ;
CC ottilde 2 ; PCC o 0 0 ; PCC tilde 92 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 69 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 92 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 92 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 92 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 92 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 69 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 69 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 69 0 ;
EndComposites
EndFontMetrics
# Seaborn notebook context
figure.figsize: 8.0, 5.5
axes.labelsize: 11
axes.titlesize: 12
xtick.labelsize: 10
ytick.labelsize: 10
legend.fontsize: 10
grid.linewidth: 1
lines.linewidth: 1.75
patch.linewidth: .3
lines.markersize: 7
lines.markeredgewidth: 0
xtick.major.width: 1
ytick.major.width: 1
xtick.minor.width: .5
ytick.minor.width: .5
xtick.major.pad: 7
ytick.major.pad: 7
C -1 ; WX 386 ; N Iacute ; B 5 0 549 904 ;
C -1 ; WX 824 ; N copyright ; B 91 -15 819 707 ;
C -1 ; WX 386 ; N Igrave ; B 5 0 466 904 ;
C -1 ; WX 672 ; N Ccedilla ; B 76 -246 742 707 ;
C -1 ; WX 417 ; N scaron ; B 10 -12 522 747 ;
C -1 ; WX 476 ; N egrave ; B 38 -12 497 755 ;
C -1 ; WX 761 ; N Ocircumflex ; B 78 -15 768 905 ;
C -1 ; WX 629 ; N Thorn ; B 5 0 660 692 ;
C -1 ; WX 596 ; N atilde ; B 26 -12 612 697 ;
C -1 ; WX 776 ; N Udieresis ; B 115 -15 867 881 ;
C -1 ; WX 476 ; N ecircumflex ; B 38 -12 524 747 ;
EndCharMetrics
StartKernData
StartKernPairs 697

KPX A z 18
KPX A y -40
KPX A x 16
KPX A w -30
KPX A v -30
KPX A u -18
KPX A t -6
KPX A s 6
KPX A r -6
KPX A quoteright -92
KPX A quotedblright -92
KPX A p -6
KPX A o -18
KPX A n -12
KPX A m -12
KPX A l -18
KPX A h -6
KPX A d 4
KPX A c -6
KPX A b -6
KPX A a 10
KPX A Y -56
KPX A X -8
KPX A W -46
KPX A V -75
KPX A U -50
KPX A T -60
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B y -6
KPX K e -30
KPX K a -12
KPX K Q -50
KPX K O -50
KPX K G -50
KPX K C -50
KPX K A 15

KPX L y -70
KPX L w -30
KPX L u -18
KPX L quotedright -110
KPX L quotedblright -110
KPX L 1 -16
KPX L j -18
KPX L i -18
KPX L Y -80
KPX L W -78
KPX L V -110
KPX L U -42
KPX L T -100
KPX L Q -48
KPX L O -48
KPX L G -48
KPX L C -48
KPX L A 40

KPX M y -18
KPX M u -24
KPX M quotedright 6
KPX M quotedblright 6
KPX M o -25
KPX M n -20
KPX M j -35
KPX M i -20
KPX M e -25
KPX M d -20
KPX M c -25
KPX M a -20

KPX N y -18
KPX N u -24
KPX N o -18
KPX N i -12
KPX N e -16
KPX N a -22

KPX O z -6
KPX Y V 6
KPX Y T 30
KPX Y Q -25
KPX Y O -25
KPX Y G -25
KPX Y C -25
KPX Y A -40

KPX Z y -36
KPX Z w -36
KPX Z u -12
KPX Z quoteright 18
KPX Z quotedblright 18
KPX Z o -6
KPX Z i -12
KPX Z e -6
KPX Z a -6
KPX Z Q -20
KPX Z O -20
KPX Z G -20
KPX Z C -20
KPX Z A 30

KPX a quoteright -54
KPX a quotedblright -54

KPX b y -6
KPX b w -5
KPX b v -5
KPX b quoteright -30
KPX b quotedblright -30
KPX b period -15
KPX b comma -15

KPX braceleft Y 64
KPX braceleft W 64
KPX braceleft V 64
KPX braceleft T 40
KPX braceleft J 60

KPX bracketleft Y 60
KPX bracketleft W 64
KPX bracketleft V 64
KPX bracketleft T 35
KPX bracketleft J 30

KPX c quoteright 5
KPX c quotedblright 5
KPX z quoterright -40
KPX z quotedblright -40
KPX z o -6
KPX z e -6
KPX z d -6
KPX z c -6
EndKernPairs
EndKernData
EndFontMetrics
StartFontMetrics 4.1
Comment Creation Date: Thu May 1 17:37:52 1997
Comment UniqueID 43051
Comment VMusage 16248 75829
FontName Courier-Oblique
FullName Courier Oblique
FamilyName Courier
Weight Medium
ItalicAngle -12
IsFixedPitch true
CharacterSet ExtendedRoman
FontBBox -27 -250 849 805
UnderlinePosition -100
UnderlineThickness 50
Version 003.000
EncodingScheme AdobeStandardEncoding
CapHeight 562
XHeight 426
Ascender 629
Descender -157
StdHW 51
StdVW 51
StartCharMetrics 315
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;
C 33 ; WX 600 ; N exclaim ; B 243 -15 464 572 ;
C 34 ; WX 600 ; N quotedbl ; B 273 328 532 562 ;
C 35 ; WX 600 ; N numbersign ; B 133 -32 596 639 ;
C 36 ; WX 600 ; N dollar ; B 108 -126 596 662 ;
C 37 ; WX 600 ; N percent ; B 134 -15 599 622 ;
C 38 ; WX 600 ; N ampersand ; B 87 -15 580 543 ;
C 39 ; WX 600 ; N quoterright ; B 283 328 495 562 ;
C 40 ; WX 600 ; N parenleft ; B 313 -108 572 622 ;
C 41 ; WX 600 ; N parenright ; B 137 -108 396 622 ;
C 42 ; WX 600 ; N asterisk ; B 212 257 580 607 ;
C 43 ; WX 600 ; N plus ; B 129 44 580 470 ;
C 44 ; WX 600 ; N comma ; B 157 -112 370 122 ;
KPX BV -20
KPX BU -20
KPX BT -20

KPX CZ -18
KPX CY -24
KPX CU -18
KPX CR -6
KPX CO -12
KPX CE -12
KPX CA -12
KPX CQ -6
KPX CO -6
KPX CG -6
KPX CC -6

KPX DY 6
KPX DU -12
KPX DR -12
KPX Dquoteright -20
KPX Dquottedblright -20
KPX Dperiod -60
KPX DI -6
KPX DH -12
KPX DE -6
KPX Dcomma -50
KPX DA -6
KPX DY -45
KPX DW -35
KPX DV -35

KPX EZ -6
KPX EY -30
KPX EX -6
KPX EW -24
KPX EV -24
KPX EU -12
KPX ET -18
KPX ER -4
KPX EQ -6
KPX EP -18
KPX EO -6
KPX EN -4
KPX EM -4
KPX E15
KPX EK 5
KPX EJ -6
KPX EI -6
KPX O X -24
KPX O W -30
KPX O V -18
KPX O T -30
KPX O A -18

KPX P u -12
KPX P t -6
KPX P s -24
KPX P r -12
KPX P period -200
KPX P o -30
KPX P n -12
KPX P l -6
KPX P hyphen -40
KPX P h -6
KPX P e -30
KPX P comma -200
KPX P a -36
KPX P I -6
KPX P H -12
KPX P E -6
KPX P A -55

KPX Q u -6
KPX Q a -18
KPX Q Y -30
KPX Q X -24
KPX Q W -24
KPX Q V -18
KPX Q U -30
KPX Q T -24
KPX Q A -18

KPX R y -20
KPX R u -12
KPX R quoteright -20
KPX R quotedblright -20
KPX R o -20
KPX R hyphen -30
KPX R e -20
KPX R d -20
KPX R a -12
KPX R Y -45
KPX R W -24
KPX R V -32
KPX R U -30
KPX R T -32

Open Source Used In Secure Workload 3.6.1.1 4790
KPX R Q -24
KPX R O -24
KPX R G -24
KPX R C -24
KPX S y -25
KPX S w -30
KPX S v -30
KPX S u -24
KPX S t -24
KPX S r -20
KPX S quoteright -10
KPX S quotedblright -10
KPX S q -5
KPX S p -24
KPX S o -12
KPX S n -20
KPX S m -20
KPX S l -18
KPX S k -24
KPX S j -12
KPX S i -20
KPX S h -12
KPX S e -12
KPX S a -18
KPX T z -64
KPX T y -84
KPX T w -100
KPX T u -82
KPX T semicolon -56
KPX T s -82
KPX T r -82
KPX T quoteright 24
KPX T period -110
KPX T parenright 54
KPX T o -100
KPX T m -82
KPX T i -34
KPX T hyphen -100
KPX T endash -50
KPX T emdash -50
KPX T e -100
KPX T comma -110
KPX T colon -50
KPX T bracketright 54
KPX T braceright 54
KPX T a -100
KPX q period -20
KPX q comma -10

KPX quotedblleft z -60
KPX quotedblleft y -30
KPX quotedblleft x -40
KPX quotedblleft w -20
KPX quotedblleft v -20
KPX quotedblleft u -40
KPX quotedblleft t -40
KPX quotedblleft s -50
KPX quotedblleft r -50
KPX quotedblleft q -80
KPX quotedblleft p -50
KPX quotedblleft o -80
KPX quotedblleft n -50
KPX quotedblleft m -50
KPX quotedblleft g -70
KPX quotedblleft f -50
KPX quotedblleft e -80
KPX quotedblleft d -80
KPX quotedblleft c -80
KPX quotedblleft a -70
KPX quotedblleft Z -20
KPX quotedblleft Y 12
KPX quotedblleft W 18
KPX quotedblleft V 18
KPX quotedblleft U -20
KPX quotedblleft T 10
KPX quotedblleft S -20
KPX quotedblleft R -20
KPX quotedblleft Q -20
KPX quotedblleft P -20
KPX quotedblleft O -30
KPX quotedblleft N -20
KPX quotedblleft M -20
KPX quotedblleft L -20
KPX quotedblleft K -20
KPX quotedblleft J -40
KPX quotedblleft I -20
KPX quotedblleft H -20
KPX quotedblleft G -30
KPX quotedblleft F -20
KPX quotedblleft E -20
KPX quotedblleft D -20
KPX quotedblleft C -30
KPX quotedblleft B -20
KPX quotedblleft A -130
<?xml version="1.0" standalone="no"?> <!--*- mode: xml -*-->
<!DOCTYPE glade-interface SYSTEM "http://glade.gnome.org/glade-2.0.dtd">
<glade-interface>

<widget class="GtkDialog" id="dialog_lineprops">
  <property name="visible">True</property>
  <property name="title" translatable="yes">Line Properties</property>
  <property name="type">GTK_WINDOW_TOPLEVEL</property>
  <property name="window_position">GTK_WIN_POS_NONE</property>
  <property name="modal">False</property>
  <property name="resizable">True</property>
  <property name="destroy_with_parent">False</property>
  <property name="decorated">True</property>
  <property name="skip_taskbar_hint">False</property>
  <property name="skip_pager_hint">False</property>
  <property name="type_hint">GDK_WINDOW_TYPE_HINT_DIALOG</property>
  <property name="gravity">GDK_GRAVITY_NORTH_WEST</property>
  <property name="has_separator">True</property>

  <child internal-child="vbox">
    <widget class="GtkVBox" id="dialog-vbox2">
      <property name="visible">True</property>
      <property name="homogeneous">False</property>
      <property name="spacing">0</property>

      <child internal-child="action_area">
        <widget class="GtkHButtonBox" id="dialog-action_area2">
          <property name="visible">True</property>
          <property name="layout_style">GTK_BUTTONBOX_END</property>
        </widget>
      </child>
    </widget>
  </child>
</widget>
</glade-interface>
<signal name="changed" handler="on_combobox_lineprops_changed" last_modification_time="Mon, 07 Nov 2005 20:40:07 GMT"/>
</widget>
<packing>
  <property name="padding">0</property>
  <property name="expand">True</property>
  <property name="fill">True</property>
</packing>
</child>

<child>
  <widget class="GtkFrame" id="frame6">
    <property name="visible">True</property>
    <property name="label_xalign">0</property>
    <property name="label_yalign">0.5</property>
    <property name="shadow_type">GTK_SHADOW_NONE</property>
    <child>
      <widget class="GtkAlignment" id="alignment9">
        <property name="visible">True</property>
        <property name="xalign">0.5</property>
        <property name="yalign">0.5</property>
        <property name="xscale">1</property>
        <property name="yscale">1</property>
        <property name="top_padding">0</property>
        <property name="bottom_padding">0</property>
        <property name="left_padding">12</property>
        <property name="right_padding">0</property>
      </widget>
    </child>
    <child>
      <widget class="GtkVBox" id="vbox5">
        <property name="visible">True</property>
        <property name="homogeneous">False</property>
        <property name="spacing">0</property>
      </widget>
    </child>
  </widget>
</child>

<child>
  <widget class="GtkTable" id="table_lineprops">
    <property name="visible">True</property>
    <property name="n_rows">2</property>
    <property name="n_columns">3</property>
    <property name="homogeneous">False</property>
    <property name="row_spacing">0</property>
    <property name="column_spacing">0</property>
  </widget>
</child>

<child>
  <widget class="GtkLabel" id="label11">
    <property name="visible">True</property>
    <property name="label" translatable="yes">Marker</property>
  </widget>
</child>
<property name="label" translatable="yes">Line style</property>
<property name="use_underline">False</property>
<property name="use_markup">False</property>
<property name="justify">GTK_JUSTIFY_LEFT</property>
<property name="wrap">False</property>
<property name="selectable">False</property>
<property name="xalign">0.5</property>
<property name="yalign">0.5</property>
<property name="xpad">0</property>
<property name="ypad">0</property>
</widget>

<packing>
<property name="left_attach">0</property>
<property name="right_attach">1</property>
<property name="top_attach">0</property>
<property name="bottom_attach">1</property>
<property name="x_options">fill</property>
<property name="y_options"></property>
</packing>
</child>
</widget>

<packing>
<property name="padding">0</property>
<property name="expand">True</property>
<property name="fill">True</property>
</packing>
</child>
</widget>
</child>

<child>
<widget class="GtkLabel" id="fram_lineprops">
<property name="visible">True</property>
<property name="label" translatable="yes">&lt;b&gt;Line properties&lt;/b&gt;</property>
<property name="use_underline">False</property>
<property name="use_markup">True</property>
<property name="justify">GTK_JUSTIFY_LEFT</property>
<property name="wrap">False</property>
<property name="selectable">False</property>
<property name="xalign">0.5</property>
<property name="yalign">0.5</property>
<property name="xpad">0</property>
<property name="ypad">0</property>
</widget>

<packing>
<property name="type">label_item</property>
</packing>
</child>
Open Source Used In Secure Workload 3.6.1.1 4810
Open Source Used In Secure Workload 3.6.1.1 4812
KPX A Q -45
KPX A O -45
KPX A G -55
KPX A C -55
KPX B period 0
KPX B comma 0
KPX B U -10
KPX B A -30
KPX D period -20
KPX D comma 0
KPX D Y -40
KPX D W -40
KPX D V -40
KPX D A -35
KPX F r 0
KPX F period -110
KPX F o -25
KPX F i 0
KPX F e -25
KPX F comma -92
KPX F a -25
KPX F A -90
KPX G period 0
KPX G comma 0
KPX J u -15
KPX J period -20
KPX J o -15
KPX J e -15
KPX J comma 0
KPX J a -15
KPX J A -30
KPX K y -45
KPX K u -15
KPX K o -25
KPX K e -25
KPX K O -30
KPX L y -55
KPX L quoteright -110
KPX L quotedblright -20
KPX L Y -92
KPX L W -92
This is the sample data needed for some of matplotlib's examples and docs. See matplotlib.cbook.get_sample_data for more info.
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# Seaborn muted palette
axes.prop_cycle: cycler('color', ['4878CF', '6ACC65', 'D65F5F', 'B47CC7', 'C4AD66', '77BEDB'])
patchificecolor: 4878CF
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Comment Creation Date: Thu May  1 15:14:13 1997
Comment UniqueID 43082
Comment VMusage 45775 55535
FontName ZapfDingbats
FullName ITC Zapf Dingbats
FamilyName ZapfDingbats
Weight Medium
ItalicAngle 0
IsFixedPitch false
CharacterSet Special
FontBBox -1 -143 981 820
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme FontSpecific
StdHW 28
StdVW 90
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C 33 ; WX 974 ; N a1 ; B 35 72 939 621 ;
C 34 ; WX 961 ; N a2 ; B 35 81 927 611 ;
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CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 110 177 ;
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CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 120 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 130 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 70 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 90 0 ;
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CC oacute 2 ; PCC o 0 0 ; PCC acute 110 0 ;
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EndFontMetrics

# Seaborn bright palette
axes.prop_cycle: cycler('color', ['003FFF', '03ED3A', 'E8000B', '8A2BE2', 'FFC400', '00D7FF'])
patch.facecolor: 003FFF
StartFontMetrics 4.1

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Comment VMusage 39754 50779
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FullName Courier
FamilyName Courier
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IsFixedPitch true
CharacterSet ExtendedRoman
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C -1 ; WX 500 ; N ydieresis ; B 26 -204 592 686 ;
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KPX A T -92

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Open Source Used In Secure Workload 3.6.1.1
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### MATPLOTLIBRC FORMAT

# This is a sample matplotlib configuration file - you can find a copy
# of it on your system in
# site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it
# there, please note that it will be overwritten in your next install.
# If you want to keep a permanent local copy that will not be
# overwritten, place it in the following location:
# unix/linux:
#   $HOME/.config/matplotlib/matplotlibrc or
#   $XDG_CONFIG_HOME/matplotlib/matplotlibrc (if $XDG_CONFIG_HOME is set)
# other platforms:
#   $HOME/.matplotlib/matplotlibrc
#
# See http://matplotlib.org/users/customizing.html#the-matplotlibrc-file for
# more details on the paths which are checked for the configuration file.
#
# This file is best viewed in an editor which supports python mode
# syntax highlighting. Blank lines, or lines starting with a comment
# symbol, are ignored, as are trailing comments. Other lines must
# have the format
#   key : val # optional comment
#
# Colors: for the color values below, you can either use - a
# matplotlib color string, such as r, k, or b - an rgb tuple, such as
# (1.0, 0.5, 0.0) - a hex string, such as ff00ff - a scalar
# grayscale intensity such as 0.75 - a legal html color name, e.g., red,
# blue, darkslategrey

#### CONFIGURATION BEGINS HERE

# The default backend; one of GTK GTKAgg GTKCairo GTK3Agg GTK3Cairo
# MacOSX Qt4Agg Qt5Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG
# Template.
# You can also deploy your own backend outside of matplotlib by
# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'.
#
# If you omit this parameter, it will always default to "Agg", which is a
# non-interactive backend.
backend : qt5agg
# If you are using the Qt4Agg backend, you can choose here
# to use the PyQt4 bindings or the newer PySide bindings to
# the underlying Qt4 toolkit.
backend.qt4 : PyQt4        # PyQt4 | PySide

# Note that this can be overridden by the environment variable
# QT_API used by Enthought Tool Suite (ETS); valid values are
# "pyqt" and "pyside". The "pyqt" setting has the side effect of
# forcing the use of Version 2 API for QString and QVariant.

# The port to use for the web server in the WebAgg backend.
# webagg.port : 8888

# If webagg.port is unavailable, a number of other random ports will
# be tried until one that is available is found.
# webagg.port_retries : 50

# When True, open the webbrowser to the plot that is shown
# webagg.open_in_browser : True

# When True, the figures rendered in the nbagg backend are created with
# a transparent background.
# nbagg.transparent : False

# if you are running pyplot inside a GUI and your backend choice
# conflicts, we will automatically try to find a compatible one for
# you if backend_fallback is True
#backend_fallback: True

#interactive : False
#toolbar      : toolbar2   # None | toolbar2  ("classic" is deprecated)
#timezone     : UTC        # a pytz timezone string, e.g., US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
# location. This is where the matplotlib fonts, bitmaps, etc reside
#datapath : /home/jdhunter/mpldata

### LINES
# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
#lines.linewidth : 1.5     # line width in points
#lines.linestyle : -     # solid line
#lines.color       : C0      # has no affect on plot(); see axes.prop_cycle
#lines.marker : None     # the default marker
#lines.markeredgewidth  : 1.0     # the line width around the marker symbol
#lines.markersize  : 6       # markersize, in points
#lines.dash_joinstyle : miter     # miter|round|bevel
#lines.dash_capstyle : butt  # butt|round|projecting
#lines.solid_joinstyle : miter  # miter|round|bevel
#lines.solid_capstyle : projecting  # butt|round|projecting
#lines.antialiased : True  # render lines in antialiased (no jaggies)

# The three standard dash patterns. These are scaled by the linewidth.
#lines.dashed_pattern : 2.8, 1.2
#lines.dashdot_pattern : 4.8, 1.2, 0.8, 1.2
#lines.dotted_pattern : 1.1, 1.1
#lines.scale_dashes : True

#markers.fillstyle: full # full|left|right|bottom|top|none

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
#patch.linewidth        : 1        # edge width in points.
#patch.facecolor        : C0
#patch.edgecolor        : black   # if forced, or patch is not filled
#patch.force_edgecolor  : False   # True to always use edgecolor
#patch.antialiased      : True    # render patches in antialiased (no jaggies)

### HATCHES
#hatch.color     : k
#hatch.linewidth : 1.0

### Boxplot
#boxplot.notch       : False
#boxplot.vertical    : True
#boxplot.whiskers    : 1.5
#boxplot.bootstrap   : None
#boxplot.patchartist : False
#boxplot.showmeans   : False
#boxplot.showcaps    : True
#boxplot.showbox     : True
#boxplot.showfliers  : True
#boxplot.meanline    : False

#boxplot.flierprops.color           : 'k'
#boxplot.flierprops.marker          : 'o'
#boxplot.flierprops.markerfacecolor : 'none'
#boxplot.flierprops.markeredgecolor : 'k'
#boxplot.flierprops.markersize      : 6
#boxplot.flierprops.linestyle       : 'none'
#boxplot.flierprops.linewidth       : 1.0
#xplot.boxprops.color : 'k'
#xplot.boxprops.linewidth : 1.0
#xplot.boxprops.linestyle : '-'

#xplot.whiskerprops.color : 'k'
#xplot.whiskerprops.linewidth : 1.0
#xplot.whiskerprops.linestyle : '-'

#xplot.capprops.color : 'k'
#xplot.capprops.linewidth : 1.0
#xplot.capprops.linestyle : '-'

#xplot.medianprops.color : 'C1'
#xplot.medianprops.linewidth : 1.0
#xplot.medianprops.linestyle : '-'

#xplot.meanprops.color : 'C2'
#xplot.meanprops.marker : '^'
#xplot.meanprops.markercolor : 'C2'
#xplot.meanprops.markersize : 6
#xplot.meanprops.linestyle : 'none'
#xplot.meanprops.linewidth : 1.0

### FONT
#
# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83%% of the current font
# size.
#
# The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 10 pt is the standard value.
#
# font.family         : sans-serif
# font.style          : normal
# font.variant        : normal
# font.weight         : medium
# font.stretch        : normal
# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller
# font.size           : 10.0
# font.serif          : DejaVu Serif, Bitstream Vera Serif, New Century Schoolbook, Century Schoolbook L, Utopia,
# ITC Bookman, Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
# font.sans-serif     : DejaVu Sans, Bitstream Vera Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica,
# Avant Garde, sans-serif
# font.cursive        : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
# font.fantasy        : Comic Sans MS, Chicago, Charcoal, Impact, Western, Humor Sans, xkcd, fantasy
# font.monospace      : DejaVu Sans Mono, Bitstream Vera Sans Mono, Andale Mono, Nimbus Mono L, Courier
# New, Courier, Fixed, Terminal, monospace

### TEXT
# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties
#
# text.color          : black

### LaTeX customizations. See http://wiki.scipy.org/Cookbook/Matplotlib/UsingTex
# text.usetex         : False  # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list

#text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.

#text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage[euler]
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

#text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use FreeType's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# FreeType library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.

#text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

#text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.

#mathtext.cal : cursive
#mathtext.rm : serif
#mathtext.tt : monospace
#mathtext.it : serif:italic
#mathtext.bf : serif:bold
#mathtext.sf : sans

#mathtext.fontset : dejavusans # Should be 'dejavusans' (default),
# 'dejavuserif', 'cm' (Computer Modern), 'stix',
# 'stixsans' or 'custom'

#mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern
# fonts when a symbol can not be found in one of
# the custom math fonts.
# mathtext.default : it # The default font to use for math.
# Can be any of the LaTeX font names, including
# the special name "regular" for the same font
# used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default fontsizes for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
#axes.facecolor      : white   # axes background color
#axes.edgecolor      : black   # axes edge color
#axes.linewidth      : 0.8     # edge linewidth
#axes.grid           : False   # display grid or not
#axes.titlesize      : large   # fontsize of the axes title
#axes.titlepad       : 6.0     # pad between axes and title in points
#axes.labelsize      : medium  # fontsize of the x any y labels
#axes.labelpad       : 4.0     # space between label and axis
#axes.labelweight    : normal  # weight of the x and y labels
#axes.labelcolor     : black
#axes.axisbelow      : 'line'  # draw axis gridlines and ticks below
# patches (True); above patches but below
# lines ('line'); or above all (False)
#axes.formatter.limits : -7, 7 # use scientific notation if log10
# of the axis range is smaller than the
# first or larger than the second
#axes.formatter.use_locale : False # When True, format tick labels
# according to the user's locale.
# For example, use ',' as a decimal
# separator in the fr_FR locale.
#axes.formatter.use_mathtext : False # When True, use mathtext for scientific
# notation.
#axes.formatter.min_exponent: 0 # minimum exponent to format in scientific notation
#axes.formatter.useoffset : True  # If True, the tick label formatter
# will default to labeling ticks relative
# to an offset when the data range is
# small compared to the minimum absolute
# value of the data.
#axes.formatter.offset_threshold : 4   # When useoffset is True, the offset
# will be used when it can remove
# at least this number of significant
# digits from tick labels.

# axes.spines.left   : True  # display axis spines
# axes.spines.bottom : True
# axes.spines.top    : True
# axes.spines.right  : True
#axes.unicode_minus : True  # use unicode for the minus symbol
# rather than hyphen. See
# http://en.wikipedia.org/wiki/Plus_and_minus_signs
# axes.prop_cycle : cycler("color", ['1f77b4', 'ff7f0e', '2ca02c', 'd62728', '9467bd', '8c564b', 'e377c2', '7f7f7f',
'bcbd22', '17becf'])
             # color cycle for plot lines as list of string
# colorspecs: single letter, long name, or web-style hex
# axes.autolimit_mode : data  # How to scale axes limits to the data.
# Use "data" to use data limits, plus some margin
# Use "round_number" move to the nearest "round" number
#axes.xmargin : .05  # x margin. See `axes.Axes.margins`
#axes.ymargin : .05  # y margin See `axes.Axes.margins`

#polaraxes.grid : True  # display grid on polar axes
#axes3d.grid : True  # display grid on 3d axes

### DATES
# These control the default format strings used in AutoDateFormatter.
# Any valid format datetime format string can be used (see the python
# `datetime` for details). For example using '%%x' will use the locale date representation
# '%%X' will use the locale time representation and '%%c' will use the full locale datetime
# representation.
# These values map to the scales:
#   {'year': 365, 'month': 30, 'day': 1, 'hour': 1/24, 'minute': 1 / (24 * 60)}
# date.autoformatter.year : %Y
# date.autoformatter.month : %Y-%m
# date.autoformatter.day : %Y-%m-%d
# date.autoformatter.hour : %m-%d %H
# date.autoformatter.minute : %d %H:%M
# date.autoformatter.second : %H:%M:%S
# date.autoformatter.microsecond : %M:%S.%f

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
# xtick.top : False  # draw ticks on the top side
# xtick.bottom : True  # draw ticks on the bottom side
# xtick.major.size : 3.5  # major tick size in points
# xtick.minor.size : 2  # minor tick size in points
# xtick.major.width : 0.8  # major tick width in points
# xtick.minor.width : 0.6  # minor tick width in points
# xtick.major.pad : 3.5  # distance to major tick label in points
# xtick.minor.pad : 3.4  # distance to the minor tick label in points
# xtick.color : k  # color of the tick labels
# xtick.labels : medium # fontsize of the tick labels
# xtick.direction : out  # direction: in, out, or inout
#xtick.minor.visible : False  # visibility of minor ticks on x-axis
#xtick.major.top   : True   # draw x axis top major ticks
#xtick.major.bottom: True   # draw x axis bottom major ticks
#xtick.minor.top   : True   # draw x axis top minor ticks
#xtick.minor.bottom: True   # draw x axis bottom minor ticks

#ytick.left      : True   # draw ticks on the left side
#ytick.right     : False  # draw ticks on the right side
#ytick.major.size: 3.5   # major tick size in points
#ytick.minor.size: 2    # minor tick size in points
#ytick.major.width: 0.8  # major tick width in points
#ytick.minor.width: 0.6  # minor tick width in points
#ytick.major.pad : 3.5   # distance to major tick label in points
#ytick.minor.pad : 3.4   # distance to the minor tick label in points
#ytick.color     : k     # color of the tick labels
#ytick.Labelsize : medium # fontsize of the tick labels
#ytick.direction : out   # direction: in, out, or inout
#ytick.minor.visible : False  # visibility of minor ticks on y-axis
#ytick.major.left : True   # draw y axis left major ticks
#ytick.major.right: True   # draw y axis right major ticks
#ytick.minor.left : True   # draw y axis left minor ticks
#ytick.minor.right: True   # draw y axis right minor ticks

### GRIDS
#grid.color       : b0b0b0    # grid color
#grid.linestyle   : -         # solid
#grid.linewidth   : 0.8       # in points
#grid.alpha       : 1.0       # transparency, between 0.0 and 1.0

### Legend
#legend.loc           : best
#legend.frameon       : True     # if True, draw the legend on a background patch
#legend.framealpha    : 0.8      # legend patch transparency
#legend.facecolor     : inherit # inherit from axes.facecolor; or color spec
#legend.edgecolor     : 0.8      # background patch boundary color
#legend.fancybox      : True     # if True, use a rounded box for the
#                         # legend background, else a rectangle
#legend.shadow        : False    # if True, give background a shadow effect
#legend.numpoints     : 1        # the number of marker points in the legend line
#legend.scatterpoints : 1        # number of scatter points
#legend.markerscale   : 1.0      # the relative size of legend markers vs. original
#legend.fontsize      : medium
# Dimensions as fraction of fontsize:
#legend.borderpad     : 0.4      # border whitespace
#legend.labelsspacing: 0.5      # the vertical space between the legend entries
#legend.handlelength : 2.0      # the length of the legend lines
#legend.handleheight : 0.7      # the height of the legend handle
### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
#figure.titlesize : large # size of the figure title (Figure.suptitle())
#figure.titleweight : normal # weight of the figure title
#figure.figsize   : 6.4, 4.8 # figure size in inches
#figure.dpi       : 100 # figure dots per inch
#figure.facecolor : white # figure facecolor; 0.75 is scalar gray
#figure.edgecolor : white # figure edgecolor
#figure.autolayout : False # When True, automatically adjust subplot parameters to make the plot fit the figure
#figure.max_open_warning : 20 # The maximum number of figures to open through the pyplot interface before emitting a warning.
# If less than one this feature is disabled.

# The figure subplot parameters. All dimensions are a fraction of the figure
#figure.subplot.left     : 0.125 # the left side of the subplots of the figure
#figure.subplot.right    : 0.9  # the right side of the subplots of the figure
#figure.subplot.bottom   : 0.11 # the bottom of the subplots of the figure
#figure.subplot.top      : 0.88 # the top of the subplots of the figure
#figure.subplot.wspace   : 0.2 # the amount of width reserved for blank space between subplots, expressed as a fraction of the average axis width
#figure.subplot.hspace   : 0.2 # the amount of height reserved for white space between subplots, expressed as a fraction of the average axis height

### IMAGES
#image.aspect : equal # equal | auto | a number
#image.interpolation : nearest # see help(imshow) for options
#image.cmap   : viridis # A colormap name, gray etc...
#image.lut    : 256 # the size of the colormap lookup table
#image.origin : upper # lower | upper
#image.resample : True
#image.composite_image : True # When True, all the images on a set of axes are combined into a single composite image before saving a figure as a vector graphics file, such as a PDF.

### CONTOUR PLOTS
#contour.negative_linestyle : dashed # string or on-off ink sequence
#contour.corner_mask        : True # True | False | legacy

### ERRORBAR PLOTS
#errorbar.capsize : 0 # length of end cap on error bars in pixels
### HISTOGRAM PLOTS

`#hist.bins : 10`  
# The default number of histogram bins.
  
  # If Numpy 1.11 or later is
  # installed, may also be 'auto'

### SCATTER PLOTS

`#scatter.marker : o`  
# The default marker type for scatter plots.

### Agg rendering

### Warning: experimental, 2008/10/10

`#agg.path.chunksize : 0`  
# 0 to disable; values in the range
  # 10000 to 100000 can improve speed slightly
  # and prevent an Agg rendering failure
  # when plotting very large data sets,
  # especially if they are very gappy.
  # It may cause minor artifacts, though.
  # A value of 20000 is probably a good
  # starting point.

### SAVING FIGURES

`#path.simplify : True`  
# When True, simplify paths by removing “invisible”
  # points to reduce file size and increase rendering
  # speed

`#path.simplify_threshold : 0.1`  
# The threshold of similarity below which
  # vertices will be removed in the simplification
  # process

`#path.snap : True`  
# When True, rectilinear axis-aligned paths will be snapped to
  # the nearest pixel when certain criteria are met. When False,
  # paths will never be snapped.

`#path.sketch : None`  
# May be none, or a 3-tuple of the form (scale, length,
  # randomness).
  # *scale* is the amplitude of the wiggle
  # perpendicular to the line (in pixels). *length*
  # is the length of the wiggle along the line (in
  # pixels). *randomness* is the factor by which
  # the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white

`#savefig.dpi : figure`  
# figure dots per inch or 'figure'

`#savefig.facecolor : white`  
# figure facecolor when saving

`#savefig.edgecolor : white`  
# figure edgecolor when saving

`#savefig.format : png`  
# png, ps, pdf, svg

`#savefig.bbox : standard`  
# 'tight' or 'standard'.
  # 'tight' is incompatible with pipe-based animation
  # backends but will work with temporary file based ones:
  # e.g. setting animation.writer to ffmpeg will not work,
  # use ffmpeg_file instead
#savefig.pad_inches : 0.1  # Padding to be used when bbox is set to 'tight'
#savefig.jpeg_quality: 95  # when a jpeg is saved, the default quality parameter.
#savefig.directory : ~   # default directory in savefig dialog box,
        # leave empty to always use current working directory
#savefig.transparent : False # setting that controls whether figures are saved with a
        # transparent background by default

# tk backend params
#tk.window_focus : False # Maintain shell focus for TkAgg

# ps backend params
#ps.papersize : letter # auto, letter, legal, ledger, A0-A10, B0-B10
#ps.useafm : False # use of afm fonts, results in small files
#ps.usedistiller : False # can be: None, ghostscript or xpdf
        # Experimental: may produce smaller files.
        # xpdf intended for production of publication quality files,
        # but requires ghostscript, xpdf and ps2eps
#ps.distiller.res : 6000 # dpi
#ps.fonttype : 3 # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
#pdf.compression : 6 # integer from 0 to 9
        # 0 disables compression (good for debugging)
#pdf.fonttype : 3 # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True # write raster image data directly into the svg file
#svg.fonttype : 'path' # How to handle SVG fonts:
        #  'none': Assume fonts are installed on the machine where the SVG will be viewed.
        #  'path': Embed characters as paths -- supported by most SVG renderers
        #  'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
        # Opera and Safari
#svg.hashsalt : None   # if not None, use this string as hash salt
        # instead of uuid4

# docstring params
#docstring.hardcopy = False  # set this when you want to generate hardcopy docstring

# Set the verbose flags. This controls how much information
# matplotliblib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
#verbose.level : silent      # one of silent, helpful, debug, debug-annoying
#verbose.fileo : sys.stdout  # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don’t need a key-map. (i.e., fullscreen : ”)

# keymap.fullscreen : f, ctrl+f        # toggling
# keymap.home : h, r, home             # home or reset mnemonic
# keymap.back : left, c, backspace     # forward / backward keys to enable
# keymap.forward : right, v            # left handed quick navigation
# keymap.pan : p                       # pan mnemonic
# keymap.zoom : o                      # zoom mnemonic
# keymap.save : s                      # saving current figure
# keymap.quit : ctrl+w, cmd+w          # close the current figure
# keymap.grid : g                      # switching on/off major grids in current axes
# keymap.grid_minor : G                 # switching on/off minor grids in current axes
# keymap.yscale : l                    # toggle scaling of y-axes (’log’/’linear’)
# keymap.xscale : L, k                  # toggle scaling of x-axes (’log’/’linear’)
# keymap.all_axes : a                   # enable all axes

# Control location of examples data files
#examples.directory : ” # directory to look in for custom installation

#####ANIMATION settings
#animation.html : ’none’              # How to display the animation as HTML in
# the IPython notebook. ’html5’ uses
# HTML5 video tag.
#animation.writer : ffmpeg             # MovieWriter ’backend’ to use
#animation.codec : h264                # Codec to use for writing movie
#animation.bitrate : -1                # Controls size/quality tradeoff for movie.
# -1 implies let utility auto-determine
#animation.frame_format : ’png’        # Controls frame format used by temp files
#animation.html_args : ”                # Additional arguments to pass to html writer
#animation.ffmpeg_path : ’ffmpeg’       # Path to ffmpeg binary. Without full path
#animation.avconv_path : ’avconv’      # Path to avconv binary. Without full path
#animation.mencoder_path : ’mencoder’
# Path to mencoder binary. Without full path
# $PATH is searched
#animation.mencoder_args: ”   # Additional arguments to pass to mencoder
#animation.convert_path: 'convert' # Path to ImageMagick's convert binary.
# On Windows use the full path since convert
# is also the name of a system tool.

StartFontMetrics 4.1
Comment Creation Date: Mon Jun 23 16:28:46 1997
Comment UniqueID 43049
Comment VMusage 17529 79244
FontName Courier-BoldOblique
FullName Courier Bold Oblique
FamilyName Courier
Weight Bold
ItalicAngle -12
IsFixedPitch true
CharacterSet ExtendedRoman
FontBBox -57 -250 869 801
UnderlinePosition -100
UnderlineThickness 50
Version 003.000
EncodingScheme AdobeStandardEncoding
CapHeight 562
XHeight 439
Ascender 629
Descender -157
StdHW 84
StdVW 106
StartCharMetrics 315
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;
C 33 ; WX 600 ; N exclam ; B 215 -15 495 572 ;
C 34 ; WX 600 ; N quotedbl ; B 211 277 585 562 ;
C 35 ; WX 600 ; N numbersign ; B 88 -45 641 651 ;
C 36 ; WX 600 ; N dollar ; B 87 -126 630 666 ;
C 37 ; WX 600 ; N percent ; B 101 -15 625 616 ;
C 38 ; WX 600 ; N ampersand ; B 61 -15 595 543 ;
C 39 ; WX 600 ; N quoteright ; B 229 277 543 562 ;
C 40 ; WX 600 ; N parenleft ; B 265 -102 592 616 ;
C 41 ; WX 600 ; N parenright ; B 117 -102 444 616 ;
C 42 ; WX 600 ; N asterisk ; B 179 219 598 601 ;
C 43 ; WX 600 ; N plus ; B 114 39 596 478 ;
C 44 ; WX 600 ; N comma ; B 99 -111 430 174 ;
C 45 ; WX 600 ; N hyphen ; B 143 203 567 313 ;
C 46 ; WX 600 ; N period ; B 206 -15 427 171 ;
C 47 ; WX 600 ; N slash ; B 90 -77 626 626 ;
C 48 ; WX 600 ; N zero ; B 135 -15 593 616 ;
# default seaborn aesthetic
# darkgrid + deep palette + notebook context

axes.axisbelow: True
axes.edgecolor: white
axes.facecolor: EAEAF2
axes.grid: True
axes.labelcolor: .15
axes.labelsize: 11
axes.linewidth: 0
axes.prop_cycle: cycler('color', ['4C72B0', '55A868', 'C44E52', '8172B2', 'CCB974', '64B5CD'])
axes.titlesize: 12

figure.facecolor: white
figure.figsize: 8.0, 5.5

font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif

grid.color: white
grid.linestyle: -
grid.linewidth: 1

image.cmap: Greys

legend.fontsize: 10
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1

lines.linewidth: 1.75
lines.markeredgewidth: 0
lines.markersize: 7
lines.solid_capstyle: round

patch.facecolor: 4C72B0
patch.linewidth: .3

text.color: .15

xtick.color: .15
xtick.direction: out
xtick.labelsize: 10
xtick.major.pad: 7
xtick.major.size: 0
xtick.major.width: 1
xtick.minor.size: 0
xtick.minor.width: .5

ytick.color: .15
ytick.direction: out
ytick.labelsize: 10
ytick.major.pad: 7
ytick.major.size: 0
ytick.major.width: 1
ytick.minor.size: 0
ytick.minor.width: .5

# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn dark parameters
axes.grid: False
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0

# Seaborn poster context
figure.figsize: 12.8, 8.8
axes.labelsize: 17.6
axes.titlesize: 19.2
xtick.labelsize: 16
ytick.labelsize: 16
legend.fontsize: 16
grid.linewidth: 1.6
lines.linewidth: 2.8
patch.linewidth: 0.48
lines.markersize: 11.2
lines.markeredgewidth: 0

xtick.major.width: 1.6
ytick.major.width: 1.6
xtick.minor.width: 0.8
ytick.minor.width: 0.8

xtick.major.pad: 11.2
ytick.major.pad: 11.2
StartFontMetrics 2.0
Comment Creation Date: Mon Mar 4 13:46:34 1991
Comment UniqueID 34370
Comment VMusage 24954 31846
FontName AvantGarde-Demi
FullName ITC Avant Garde Gothic Demi
FamilyName ITC Avant Garde Gothic
Weight Demi
ItalicAngle 0
IsFixedPitch false
FontBBox -123 -251 1222 1021
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
EncodingScheme AdobeStandardEncoding
CapHeight 740
XHeight 555
Ascender 740
Descender -185
StartCharMetrics 228
C 32 ; WX 280 ; N space ; B 0 0 0 ;
Open Source Used In Secure Workload 3.6.1.1 4959
KPX O X -30
KPX O W -20
KPX O V -45
KPX O T -15
KPX O A -60

KPX P period -200
KPX P α -20
KPX P e -20
KPX P comma -220
KPX P a -20
KPX P A -100

KPX Q comma 20

KPX R W 25
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KPX R O 25

KPX S comma 20

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KPX w a -30

KPX x e -20

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KPX y o -30
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KPX y a -30
EndKernPairs
EndKernData
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CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 120 170 ;
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CC Atilde 2 ; PCC A 0 0 ; PCC tilde 130 170 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 50 170 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex -10 170 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 10 170 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 50 170 ;
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CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -130 170 ;
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CC Scaron 2 ; PCC S 0 0 ; PCC caron -10 170 ;
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CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 70 170 ;
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CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 60 170 ;
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CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;
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KPX y e -7
KPX y comma -65
KPX y a -24

KPX z e 8
EndKernPairs
EndKernData
StartComposites 58
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CC Iacute 2 ; PCC I 0 0 ; PCC acute -22 186 ;
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CC Igave 2 ; PCC I 0 0 ; PCC grave -22 186 ;
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CC Oacute 2 ; PCC O 0 0 ; PCC acute 183 186 ;
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CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 108 0 ;
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CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;
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#Author: Cameron Davidson-Pilon, replicated styles from FiveThirtyEight.com
# See https://www.dataorigami.net/blogs/fivethirtyeight-mpl

lines.linewidth: 4
lines.solid_capstyle: butt

legend.fancybox: true

axes.prop_cycle: cycler('color', ['008fd5', 'fc4f30', 'e5ae38', '6d904f', '8b8b8b', '810f7c'])
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axes.labelsize: large
axes.axisbelow: true
axes.grid: true
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axes.linewidth: 3.0
axes.titlesize: x-large

patch.edgecolor: f0f0f0
patch.linewidth: 0.5

svg.fonttype: path

grid.linestyle: -
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figure.subplot.left: 0.08
figure.subplot.right: 0.95
figure.subplot.bottom: 0.07
figure.facecolor: f0f0f0

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2) BaKoMa-AMS (1.2/19-Jan-95)
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Basil K. Malyshev
INSTITUTE FOR HIGH ENERGY PHYSICS
IHEP, OMVT
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^v
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Open Source Used In Secure Workload 3.6.1.1
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KPX V a -74
KPX V A -88
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Open Source Used In Secure Workload 3.6.1.1 5059
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CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 120 166 ;
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CC Egrave 2 ; PCC E 0 0 ; PCC grave 170 166 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 20 166 ;
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CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 166 ;
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Open Source Used In Secure Workload 3.6.1.1  5064
Open Source Used In Secure Workload 3.6.1.1  5069
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 KPX V e -75
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 KPX V A -74

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 KPX Y A -75

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EndKernData

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5 25 125
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9 81 729
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# .8 = light_gray
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C -1 ; WX 606 ; N minus ; B 51 219 555 287 ;
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The STIX fonts distributed with matplotlib have been modified from their canonical form. They have been converted from OTF to TTF format.
using Fontforge and this script:

```bash
#!/usr/bin/env fontforge
i=1
while ( i<$argc )
    Open($argv[i])
    Generate($argv[i]:r + ".ttf")
    i = i+1
endloop
```

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```
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24 May 2010

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http://scripts.sil.org/OFL
```

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StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:28 1990
Comment UniqueID 5000793
FontName CMR10
EncodingScheme FontSpecific
FullName CMR10
FamilyName Computer Modern
Weight Medium
ItalicAngle 0.0
IsFixedPitch false
Version 1.00B
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBox -40 -250 1009 969
CapHeight 683.333
XHeight 430.556
Ascender 694.444
Descender -194.444
Comment FontID CMR
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX text
Comment Space 333.333 166.667 111.111
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Comment  Copyright (c) 1985, 1987, 1988 Adobe Systems Incorporated. All Rights Reserved.
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FullName Helvetica Light
FamilyName Helvetica
Weight Light
ItalicAngle 0.0
IsFixedPitch false
UnderlinePosition -90
UnderlineThickness 58
Version 001.002

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Open Source Used In Secure Workload 3.6.1.1 5124
1.409 concurrent-trees 2.6.0

1.410 activerecord 5.2.6

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1.411 libxxf86misc 1.0.3 7.1.el7

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1.413 python-pip 9.0.3-8.el7

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1.414 dask 0.16.1

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1.415 perl-extutils-parsexs 3.18 3.el7

1.416 perl-thread-queue 3.02 2.el7
1.417 zipp 1.2.0

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1.418 perl-cgi 3.63 4.el7

1.419 ncurses 6.1

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Files: aclocal.m4 package
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1.420 libxshmfence 1.2 1.el7
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1.421 jasper 1.900.1 21.el6_9

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors. The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

a) Accompany the work with the complete corresponding 
machine-readable source code for the Library including whatever 
changes were used in the work (which must be distributed under 
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with the Library, with the complete machine-readable "work that 
uses the Library", as object code and/or source code, so that the 
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rather than copying library functions into the executable, and (2) 
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
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We call this license the "Lesser" General Public License because it
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are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

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

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

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a) The modified work must itself be a software library.

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c) You must cause the whole of the work to be licensed at no
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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Library will not necessarily be able to recompile the application
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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 * Represents an access permission, as granted to grantees in an `@link AccessControlList`.
 * Only a limited set of permissions are available, each one is available as a public static
 * variable in this class of the form PERMISSION_XYZ.
 *
 * @author James Murty
 */

public final class Permission {

    public static final Permission PERMISSION_FULL_CONTROL = new Permission("FULL_CONTROL");
    public static final Permission PERMISSION_READ = new Permission("READ");
    public static final Permission PERMISSION_WRITE = new Permission("WRITE");
    public static final Permission PERMISSION_READ_ACP = new Permission("READ_ACP");
    public static final Permission PERMISSION_WRITE_ACP = new Permission("WRITE_ACP");

    private String permissionString = "";

    private Permission(String permissionString) {
        this.permissionString = permissionString;
    }

    /**
     * @param str
     * a string representation of a permission, eg `<tt>FULL_CONTROL</tt>
     * @return
     * the Permission object represented by the given permission string
     */

    public static Permission parsePermission(String str) {
        Permission permission = null;
        if (str == null) {
            // Do nothing
        } else if (str.equals(PERMISSION_FULL_CONTROL.toString())) {
            permission = PERMISSION_FULL_CONTROL;
        } else if (str.equals(PERMISSION_READ.toString())) {
            permission = PERMISSION_READ;
        } else if (str.equals(PERMISSION_WRITE.toString())) {
            permission = PERMISSION_WRITE;
        } else if (str.equals(PERMISSION_READ_ACP.toString())) {
            permission = PERMISSION_READ_ACP;
        } else if (str.equals(PERMISSION_WRITE_ACP.toString())) {
            permission = PERMISSION_WRITE_ACP;
        } else {
            permission = null;
        }
        return permission;
    }

    /**
/**
 * @return
 * the string representation of a permission object, eg <tt>FULL_CONTROL</tt>
 */

public String toString() {
    return permissionString;
}

public int hashCode() {
    return permissionString.hashCode();
}

public boolean equals(Object obj) {
    return (obj instanceof Permission) && toString().equals(obj.toString());
}


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

@small exemple

@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.
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General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

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

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smlalexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box''.

You should also get your employer (if you work as a programmer) or school,
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1.449 tiger-types 1.4

1.450 libidn 1.18 2.el6
1.450.1 Available under license:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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This license, the Lesser General Public License, applies to some
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can use it too, but we suggest you first think carefully about whether
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strategy to use in any particular case, based on the explanations below.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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permitted, and provided that you do these two things:

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based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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@subheading Preamble

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library' and a `work that uses the library'. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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Ty Coon, President of Vice
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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.458 python-requests 2.6.0-10.el7

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Requests includes some vendorized python libraries to ease installation.

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1.459 tdb 1.42.9

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1.462 htrace-core 3.1.0-incubating

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htrace-core

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1.463 libsepol 2.0.41 4.el6

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  Shape views: `util.shape.view_as_windows` and `util.shape.view_as_blocks`
  Montage helpers: `util.montage`.

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- Holger Rapp
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- Ralf Gommers
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- Helge Reikeras
  Logic around API docs generation

- Tony Yu
  Reading of paletted images; build, bug and doc fixes.
  Code to generate skimage logo.
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  Incorporating CellProfiler's Sobel edge detector, build and bug fixes.
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- Emmanuelle Gouillart
  Total variation noise filtering, integration of CellProfiler's mathematical morphology tools, random walker segmentation, tutorials, and more.

- Mal Primet
  Total variation noise filtering

- Martin Bergholdt
  Fix missing math.h functions in Windows 7 + MSVCC.

- Neil Muller
  Numerous fixes, including those for Python 3 compatibility, QT image reading.

- The IPython team
  From whom we borrowed the github+web tools / style.

- Kyle Mandli
  CSV to ReST code for feature comparison table.

- The Scikit Learn team
  From whom we borrowed the example generation tools.

- Andreas Mueller
  Example data set loader. Nosetest compatibility functions.
  Quickshift image segmentation, Felzenszwalbs fast graph based segmentation.

- Yaroslav Halchenko
  For sharing his expert advice on Debian packaging.

- Brian Holt
  Histograms of Oriented Gradients

- David-Warde Farley, Sturla Molden
  Bresenheim line drawing, from snippets on numpy-discussion.

- Christoph Gohlke
  Windows packaging and Python 3 compatibility.

- Neil Yager
Skeletonization and grey level co-occurrence matrices.

- Nelle Varoquaux
  Renaming of the package to `skimage`.
  Harris corner detector

- W. Randolph Franklin
  Point in polygon test.

- Gal Varoquaux
  Harris corner detector

- Nicolas Poilvert
  Shape views: `util.shape.view_as_windows` and `util.shape.view_as_blocks`
  Image resizing.

- Johannes Schnberger
  Drawing functions, adaptive thresholding, regionprops, geometric transformations, LBPs, polygon approximations, web layout, and more.

- Pavel Campr
  Fixes and tests for Histograms of Oriented Gradients.

- Joshua Warner
  Multichannel random walker segmentation, unified peak finder backend, n-dimensional array padding, marching cubes, bug and doc fixes.

- Petter Strandmark
  Perimeter calculation in regionprops.

- Olivier Debeir
  Rank filters (8- and 16-bits) using sliding window.

- Luis Pedro Coelho
  imread plugin

- Steven Silvester, Karel Zuiderveld
  Adaptive Histogram Equalization

- Anders Boesen Lindbo Larsen
  Dense DAISY feature description, circle perimeter drawing.

- Francois Boulogne
  Drawing: Andres Method for circle perimeter, ellipse perimeter drawing, Bezier curve, anti-aliasing.
  Circular and elliptical Hough Transforms
  Various fixes
- Thouis Jones
  Vectorized operators for arrays of 16-bit ints.

- Xavier Moles Lopez
  Color separation (color deconvolution) for several stainings.

- Jostein B Flystad
  Tomography: radon/iradon improvements and SART implementation
  Phase unwrapping integration

- Matt Terry
  Color difference functions

- Eugene Dvoretsky
  Yen, Ridler-Calvard (ISODATA) threshold implementations.

- Riaan van den Dool
  skimage.io plugin: GDAL

- Fedor Morozov
  Drawing: Wu's anti-aliased circle

- Michael Hansen
  novice submodule

- Munther Gdeisat
  Phase unwrapping implementation

- Miguel Arevallilo Herraez
  Phase unwrapping implementation

- Hussein Abdul-Rahman
  Phase unwrapping implementation

- Gregor Thalhammer
  Phase unwrapping integration

- Francois Orieux
  Image deconvolution http://research.orieux.fr

- Vighnesh Birodkar
  Blob Detection

- Axel Donath
  Blob Detection

- Adam Feuer
  PIL Image import and export improvements
- Rebecca Murphy
astronaut in examples

- Geoffrey French
skimage.filters.rank.windowed_histogram and plot_windowed_histogram example.

- Alexey Umnov
skimage.draw.ellipse bug fix and tests.

- Ivana Kajic
Updated description and examples in documentation for gabor filters

- Matj T
Extended the image labelling implementation so it also works on 3D images.

- Salvatore Scaramuzzino
RectTool example

- Kevin Keraudren
Fix and test for feature.peak_local_max

- Jeremy Metz
Adaptation of ImageJ Autothresholder.Li, fixed Qhull error QH6228

- Mike Sarahan
Sub-pixel shift registration

- Jim Fienup, Alexander Iacchetta
In-depth review of sub-pixel shift registration

- Damian Eads
Structuring elements in morphology module.

- Egor Panfilov
Inpainting with biharmonic equation

- Evgeni Burovski
Adaptation of ImageJ 3D skeletonization algorithm.

1.468 libxrender 0.9.10-1.el7
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### 1.470 python-motor 1.2.0

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1.484 jersey-container-jetty-http 2.14

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1.485 jackson-annotations 2.8.5

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1.486 centos-release 7-9.2009.1.el7.centos

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.
We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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KPX ydieresis comma -37
KPX ydieresis period -37
EndKernPairs
EndKernData
EndFontMetrics
StartFontMetrics 4.1
Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Thu May  1 15:12:25 1997
Comment UniqueID 43064
Comment VMusage 30820 39997
FontName Symbol
FullName Symbol
FamilyName Symbol
Weight Medium
ItalicAngle 0
IsFixedPitch false
CharacterSet Special
FontBBox -180 -293 1090 1010
UnderlinePosition -100
UnderlineThickness 50
Version 001.008
Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.
EncodingScheme FontSpecific
StdHW 92
StdVW 85
StartCharMetrics 190
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclamation ; B 128 -17 240 672 ;
C 34 ; WX 713 ; N universal ; B 31 0 681 705 ;
C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;
C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;
C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;
C 38 ; WX 778 ; N ampersand ; B 41 -18 750 661 ;
C 39 ; WX 439 ; N suchthat ; B 63 -36 771 655 ;
C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;
C 41 ; WX 333 ; N parenright ; B 30 -191 277 673 ;
C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;
C 43 ; WX 549 ; N plus ; B 10 0 539 533 ;
C 44 ; WX 250 ; N comma ; B 56 -152 194 104 ;
C 45 ; WX 549 ; N minus ; B 11 233 535 288 ;
C 46 ; WX 250 ; N period ; B 69 -17 181 95 ;
C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;
C 48 ; WX 500 ; N zero ; B 24 -14 476 685 ;
C 49 ; WX 500 ; N one ; B 117 0 390 673 ;
C 50 ; WX 500 ; N two ; B 25 0 475 685 ;
C 51 ; WX 500 ; N three ; B 43 -14 435 685 ;
C 52 ; WX 500 ; N four ; B 15 0 469 685 ;
C 53 ; WX 500 ; N five ; B 32 -14 445 690 ;
C 54 ; WX 500 ; N six ; B 34 -14 468 685 ;
C 55 ; WX 500 ; N seven ; B 24 -16 448 673 ;
C 56 ; WX 500 ; N eight ; B 56 -14 445 685 ;
C 57 ; WX 500 ; N nine ; B 30 -18 459 685 ;
C 58 ; WX 278 ; N colon ; B 81 -17 193 460 ;
C 59 ; WX 278 ; N semicolon ; B 83 -152 221 460 ;
C 60 ; WX 549 ; N less ; B 26 0 523 522 ;
C 61 ; WX 549 ; N equal ; B 11 141 537 390 ;
# from http://www.huyng.com/posts/sane-color-scheme-for-matplotlib/

```
patch.linewidth: 0.5
patch.facecolor: 348ABD # blue
patch.edgecolor: EEEEEE
patch.antialiased: True

font.size: 10.0

axes.facecolor: E5E5E5
axes.edgecolor: white
axes.linewidth: 1
axes.grid: True
axes.titlesize: x-large
axes.labelsize: large
axes.labelcolor: 555555
axes.axisbelow: True       # grid/ticks are below elements (e.g., lines, text)
axes.prop_cycle: cycler('color', ['E24A33', '348ABD', '988ED5', '777777', 'FBC15E', '8EBA42', 'FFB5B8'])  # grid/ticks are below elements (e.g., lines, text)

axes.prop_cycle: cycler('color', ['E24A33', '348ABD', '988ED5', '777777', 'FBC15E', '8EBA42', 'FFB5B8'])
    # E24A33 : red
    # 348ABD : blue
    # 988ED5 : purple
    # 777777 : gray
    # FBC15E : yellow
    # 8EBA42 : green
    # FFB5B8 : pink

xtick.color: 555555
xtick.direction: out
```
ytick.color: 555555
ytick.direction: out

grid.color: white
grid.linestyle: -    # solid line

figure.facecolor: white
figure.edgecolor: 0.50
P6
# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
sOoOoHf3HZ"0;xKjOo3HZOoOoOo3HZxOo3HZ3HZx
# Seaborn paper context
figure.figsize: 6.4, 4.4
axes.labelsize: 8.8
axes.titlesize: 9.6
xtick.labelsize: 8
ytick.labelsize: 8
legend.fontsize: 8
grid.linewidth: 0.8
lines.linewidth: 1.4
patch.linewidth: 0.24
lines.markersize: 5.6
lines.markeredgewidth: 0

xtick.major.width: 0.8
ytick.major.width: 0.8
xtick.minor.width: 0.4
ytick.minor.width: 0.4

xtick.major.pad: 5.6
ytick.major.pad: 5.6
StartFontMetrics 2.0
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Thu Mar 15 08:58:00 1990
Comment UniqueID 28352
Comment VMusage 26389 33281
FontName Helvetica
FullName Helvetica
FamilyName Helvetica
Weight Medium
ItalicAngle 0
IsFixedPitch false
FontBBox -166 -225 1000 931
UnderlinePosition -100
UnderlineThickness 50
KPX T a -120
KPX T O -40
KPX T A -120

KPX U period -40
KPX U comma -40
KPX U A -40

KPX V u -70
KPX V semicolon -40
KPX V period -125
KPX V o -80
KPX V hyphen -80
KPX V e -80
KPX V comma -125
KPX V colon -40
KPX V a -70
KPX V O -40
KPX V G -40
KPX V A -80

KPX W y -20
KPX W u -30
KPX W period -80
KPX W o -30
KPX W hyphen -40
KPX W e -30
KPX W comma -80
KPX W a -40
KPX W O -20
KPX W A -50

KPX Y u -110
KPX Y semicolon -60
KPX Y period -140
KPX Y o -140
KPX Y i -20
KPX Y hyphen -140
KPX Y e -140
KPX Y comma -140
KPX Y colon -60
KPX Y a -140
KPX Y O -85
KPX Y A -110

KPX a y -30
KPX a w -20
KPX a v -20
KPX o x -30
KPX o w -15
KPX o v -15
KPX o period -40
KPX o comma -40

KPX oslash z -55
KPX oslash y -70
KPX oslash x -85
KPX oslash w -70
KPX oslash v -70
KPX oslash u -55
KPX oslash t -55
KPX oslash s -55
KPX oslash r -55
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KPX oslash k -55
KPX oslash j -55
KPX oslash i -55
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KPX oslash f -55
KPX oslash e -55
KPX oslash d -55
KPX oslash comma -95
KPX oslash c -55
KPX oslash b -55
KPX oslash a -55

KPX p y -30
KPX p period -35
KPX p comma -35

KPX period space -60
KPX period quotedright -100
KPX period quotedblright -100

KPX quotedblright space -40

KPX quoteleft quoteleft -57

KPX quotedright space -70
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StartFontMetrics 4.1
Comment Creation Date: Thu May 1 12:56:55 1997
Comment UniqueID 43067
Comment VMusage 47727 58752
FontName Times-Italic
FullName Times Italic
FamilyName Times
Weight Medium
ItalicAngle -15.5
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -169 -217 1010 883
UnderlinePosition -100
KPX Adieresis Ccaron -30
KPX Adieresis Ccedilla -30
KPX Adieresis G -35
KPX Adieresis Gbreve -35
KPX Adieresis Gcommaaccent -35
KPX Adieresis O -40
KPX Adieresis Oacute -40
KPX Adieresis Ocircumflex -40
KPX Adieresis Odieresis -40
KPX Adieresis Ograve -40
KPX Adieresis Ohungarumlaut -40
KPX Adieresis Omacron -40
KPX Adieresis Oslash -40
KPX Adieresis Otilde -40
KPX Adieresis Q -40
KPX Adieresis T -37
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KPX Adieresis Tcommaaccent -37
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KPX Adieresis Uacute -50
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KPX Adieresis Uring -50
KPX Adieresis V -105
KPX Adieresis W -95
KPX Adieresis Y -55
KPX Adieresis Yacute -55
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KPX Adieresis quoteright -37
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KPX Adieresis uacute -20
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KPX Adieresis udieresis -20
KPX Adieresis ugrave -20
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KPX Adieresis ydieresis -55
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KPX L\slash ydieresis -30
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KPX N Adieresis -27
KPX N Agrave -27
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KPX N A ring -27
KPX N A tilde -27
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KPX N Acute Aacute -27
KPX N Acute Abreve -27
KPX N Acute Acircumflex -27
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KPX N Acute A ogonek -27
KPX N Acute A ring -27
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KPX Ncommaaccent Abreve -27
KPX Ncommaaccent Acircumflex -27
KPX Ncommaaccent Adieresis -27
KPX Ncommaaccent Agrave -27
KPX Ncommaaccent A ogonek -27
KPX Ncommaaccent A ring -27
KPX Ncommaaccent A tilde -27
KPX Ntilde A -27
KPX Ntilde Aacute -27

Open Source Used In Secure Workload 3.6.1.1 5706
KPX Ocircumflex Abreve -55
KPX Ocircumflex Acircumflex -55
KPX Ocircumflex Adieresis -55
KPX Ocircumflex Agrave -55
KPX Ocircumflex Amacron -55
KPX Ocircumflex Aogonek -55
KPX Ocircumflex Aring -55
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KPX Odieresis Adieresis -55
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KPX Ograve Aring -55
KPX Ograve Atilde -55
KPX Ograve T -40
KPX Ograve Tcaron -40
Open Source Used In Secure Workload 3.6.1.1 5734
KPX rcommaaccent d -37
KPX rcommaaccent dcroat -37
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KPX rcommaaccent eacute -37
KPX rcommaaccent ecaron -37
KPX rcommaaccent ecircumflex -37
KPX rcommaaccent edieresis -37
KPX rcommaaccent edotaccent -37
KPX rcommaaccent egrave -37
KPX rcommaaccent emacron -37
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KPX rcommaaccent g -37
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* Includes Sizzle.js *

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* Date: 2015-04-28T16:19Z */

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### Classic matplotlib plotting style as of v1.5

### LINES

# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
lines.linewidth : 1.0     # line width in points
lines.linestyle : -       # solid line
lines.color : b          # has no affect on plot(); see axes.prop_cycle
lines.marker : None      # the default marker
lines.markeredgewidth : 0.5 # the line width around the marker symbol
lines.markersize : 6     # markersize, in points
lines.dash_joinstyle : round # miter|round|bevel
lines.dash_capstyle : butt  # butt|round|projecting
lines.solid_joinstyle : round # miter|round|bevel
lines.solid_capstyle : projecting # butt|round|projecting
lines.antialiased : True  # render lines in antialiased (no jaggies)

### Marker props
markers.fillstyle: full

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
patch.linewidth : 1.0     # edge width in points
patch.facecolor : b
patch.edgecolor : k
patch.antialiased : True  # render patches in antialiased (no jaggies)

### FONT
#
# font properties used by text.Text. See
# http://matplotlib.org/api/font_manager_api.html for more
# information on font properties. The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
# The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.
#
font.family         : sans-serif
font.style          : normal
font.variant        : normal
font.weight         : normal
font.stretch        : normal
# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller
font.size           : 12.0
font.serif     : Bitstream Vera Serif, DejaVu Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman, Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
font.sans-serif: Bitstream Vera Sans, DejaVu Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif
font.cursive   : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
font.fantasy   : Comic Sans MS, Chicago, Charcoal, ImpactWestern, Humor Sans, fantasy
font.monospace : Bitstream Vera Sans Mono, DejaVu Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT
# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties

text.color          : k

### LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex
text.usetex         : False  # use latex for all text handling. The following fonts
    # are supported through the usual rc parameter settings:
    # new century schoolbook, bookman, times, palatino,
    # zapf chancery, charter, serif, sans-serif, helvetica,
    # avant garde, courier, monospace, computer modern roman,
    # computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list

text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.

text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with use\textsc{tex}, so
# beware of package collisions: color, geometry, graphicx,
# type\texttt{1cm}, textcomp. Adobe Postscript (P\texttt{SSNFS}) font packages
# may also be loaded, depending on your font settings

text.latex.preview : False

text.dvipnghack : None # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.
text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
mathtext.cal : cursive
mathtext.rm : serif
mathtext.tt : monospace
mathtext.it : serif:italic
mathtext.bf : serif:bold
mathtext.sf : sans-serif
mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
    # 'stixsans' or 'custom'
mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern
    # fonts when a symbol can not be found in one of
    # the custom math fonts.

mathtext.default : it # The default font to use for math.
    # Can be any of the LaTeX font names, including
    # the special name "regular" for the same font
    # used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default fontsize for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
axes.hold           : True    # whether to clear the axes by default on
axes.facecolor      : w       # axes background color
axes.edgecolor      : k       # axes edge color
axes.linewidth      : 1.0     # edge linewidth
axes.grid           : False   # display grid or not
axes.grid.which     : major
axes.grid.axis      : both
axes.titlesize      : large   # fontsize of the axes title
axes.titleweight    : normal  # font weight for axes title
axes.labelsize      : medium  # fontsize of the x and y labels
axes.labelpad       : 5.0     # space between label and axis
axes.labelweight    : normal  # weight of the x and y labels
axes.labelcolor     : k
axes.axisbelow      : False   # whether axis gridlines and ticks are below
    # the axes elements (lines, text, etc)
axes.formatter.limits : -7, 7 # use scientific notation if log10
    # of the axis range is smaller than the
    # first or larger than the second
axes.formatter.use_locale : False # When True, format tick labels
    # according to the user's locale.
    # For example, use '.' as a decimal
    # separator in the fr_FR locale.
axes.formatter.use_mathtext : False # When True, use mathtext for scientific
    # notation.
axes.formatter.useoffset : True   # If True, the tick label formatter
    # will default to labeling ticks relative
    # to an offset when the data range is very
# small compared to the minimum absolute
# value of the data.

axes.unicode_minus : True  # use unicode for the minus symbol
# rather than hyphen. See
# http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
axes.prop_cycle : cycler('color', 'bgrcmyk')
    # color cycle for plot lines
    # as list of string colorspecs:
    # single letter, long name, or
    # web-style hex
axes.xmargin        : 0  # x margin. See `axes.Axes.margins`
axes.ymargin        : 0  # y margin See `axes.Axes.margins`
axes.spines.bottom  : True
axes.spines.left    : True
axes.spines.right   : True
axes.spines.top     : True
polaraxes.grid      : True    # display grid on polar axes
axes3d.grid         : True    # display grid on 3d axes

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
xtick.major.size   : 4      # major tick size in points
xtick.minor.size   : 2      # minor tick size in points
xtick.minor.visible: False
xtick.major.width  : 0.5    # major tick width in points
xtick.minor.width  : 0.5    # minor tick width in points
xtick.major.pad    : 4      # distance to major tick label in points
xtick.minor.pad    : 4      # distance to the minor tick label in points
xtick.color        : k      # color of the tick labels
xtick.labelsize    : medium  # fontsize of the tick labels
xtick.direction    : in     # direction: in, out, or inout

ytick.major.size   : 4      # major tick size in points
ytick.minor.size   : 2      # minor tick size in points
ytick.minor.visible: False
ytick.major.width  : 0.5    # major tick width in points
ytick.minor.width  : 0.5    # minor tick width in points
ytick.major.pad    : 4      # distance to major tick label in points
ytick.minor.pad    : 4      # distance to the minor tick label in points
ytick.color        : k      # color of the tick labels
ytick.labelsize    : medium  # fontsize of the tick labels
ytick.direction    : in     # direction: in, out, or inout

### GRIDS

grid.color       : k  # grid color
grid.linestyle   : :  # dotted
grid.linewidth : 0.5  # in points
grid.alpha : 1.0  # transparency, between 0.0 and 1.0

### Legend
legend.fancybox : False  # if True, use a rounded box for the
# legend, else a rectangle
legend.loc : upper right
legend.isaxes : True  # this option is internally ignored
legend.numpoints : 2  # the number of points in the legend line
legend.fontsize : large
legend.borderpad : 0.4  # border whitespace in fontsize units
legend.markerscale : 1.0  # the relative size of legend markers vs. original
# the following dimensions are in axes coords
legend.labels spacing : 0.5  # the vertical space between the legend entries in fraction of fontsize
legend.handlelength : 2.  # the length of the legend lines in fraction of fontsize
legend.handleheight : 0.7  # the height of the legend handle in fraction of fontsize
legend.handletextpad : 0.8  # the space between the legend line and legend text in fraction of fontsize
legend.borderaxespad : 0.5  # the border between the axes and legend edge in fraction of fontsize
legend.columnspacing : 2.  # the border between the axes and legend edge in fraction of fontsize
legend.shadow : False
legend.frameon : True  # whether or not to draw a frame around legend
legend.framealpha : None  # opacity of of legend frame
legend.scatterpoints : 3  # number of scatter points
legend.facecolor : inherit  # legend background color (when None inherits from axes.facecolor)
legend.edgecolor : inherit  # legend edge color (when None inherits from axes.facecolor)

### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
figure.titlesize : medium  # size of the figure title
figure.titleweight : normal  # weight of the figure title
figure.figsize : 8, 6  # figure size in inches
figure.dpi : 80  # figure dots per inch
figure.facecolor : 0.75  # figure facecolor; 0.75 is scalar gray
figure.edgecolor : w  # figure edgecolor
figure.autolayout : False  # When True, automatically adjust subplot
# parameters to make the plot fit the figure
figure.max_open_warning : 20  # The maximum number of figures to open through
# the pyplot interface before emitting a warning.
# If less than one this feature is disabled.
figure.frameon : True

# The figure subplot parameters.  All dimensions are a fraction of the
# figure width or height
figure.subplot.left : 0.125  # the left side of the subplots of the figure
figure.subplot.right : 0.9  # the right side of the subplots of the figure
figure.subplot.bottom : 0.1  # the bottom of the subplots of the figure
figure.subplot.top : 0.9  # the top of the subplots of the figure
figure.subplot.wspace : 0.2  # the amount of width reserved for blank space between subplots
figure.subplot.hspace : 0.2  # the amount of height reserved for white space between subplots

### IMAGES
image.aspect : equal  # equal | auto | a number
image.interpolation : bilinear  # see help(imshow) for options
image.cmap : jet  # gray | jet etc...
image.lut : 256  # the size of the colormap lookup table
image.origin : upper  # lower | upper
image.resample : False
image.composite_image : True

### CONTOUR PLOTS
contour.negative_linestyle : dashed  # dashed | solid
contour.corner_mask : True

# errorbar props
errorbar.capsize: 3

### Boxplots
boxplot.bootstrap: None
boxplot.boxprops.color: b
boxplot.boxprops.linestyle: -
boxplot.boxprops.linewidth: 1.0
boxplot.capprops.color: k
boxplot.capprops.linestyle: -
boxplot.capprops.linewidth: 1.0
boxplot.flierprops.color: b
boxplot.flierprops.linestyle: -
boxplot.flierprops.linewidth: 1.0
boxplot.flierprops.marker: +
boxplot.flierprops.markeredgecolor: k
boxplot.flierprops.markercolor: b
boxplot.flierprops.markersize: 6.0
boxplot.meanline: False
boxplot.meanprops.color: r
boxplot.meanprops.linestyle: -
boxplot.meanprops.linewidth: 1.0
boxplot.medianprops.color: r
boxplot.medianprops.linestyle: -
boxplot.medianprops.linewidth: 1.0
boxplot.notch: False
boxplot.patchartist: False
boxplot.showbox: True
boxplot.showcaps: True
boxplot.showfliers: True
boxplot.showmeans: False
boxplot.vertical: True
boxplot.whiskerprops.color: b
boxplot.whiskerprops.linestyle: --
boxplot.whiskerprops.linewidth: 1.0
boxplot.whiskers: 1.5

### Agg rendering
### Warning: experimental, 2008/10/10
agg.path.chunksize : 0       # 0 to disable; values in the range
# 10000 to 100000 can improve speed slightly
# and prevent an Agg rendering failure
# when plotting very large data sets,
# especially if they are very gappy.
# It may cause minor artifacts, though.
# A value of 20000 is probably a good
# starting point.

### SAVING FIGURES
path.simplify : True  # When True, simplify paths by removing "invisible"
# points to reduce file size and increase rendering
# speed
path.simplify_threshold : 0.1111111111111111
# The threshold of similarity below which
# vertices will be removed in the simplification
# process
path.snap : True  # When True, rectilinear axis-aligned paths will be snapped to
# the nearest pixel when certain criteria are met. When False,
# paths will never be snapped.
path.sketch : None  # May be none, or a 3-tuple of the form (scale, length,
# randomness).
# *scale* is the amplitude of the wiggle
# perpendicular to the line (in pixels). *length*
# is the length of the wiggle along the line (in
# pixels). *randomness* is the factor by which
# the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
savefig.dpi : 100   # figure dots per inch
savefig.facecolor : w    # figure facecolor when saving
savefig.edgecolor : w    # figure edgecolor when saving
savefig.format : png   # png, ps, pdf, svg
savefig.bbox : standard  # 'tight' or 'standard'.
# 'tight' is incompatible with pipe-based animation
# backends but will work with temporary file based ones:
# e.g. setting animation.writer to ffmpeg will not work,
# use ffmpeg_file instead
savefig.pad_inches : 0.1   # Padding to be used when bbox is set to 'tight'
savefig.jpeg_quality: 95  # when a jpeg is saved, the default quality parameter.
savefig.directory : ~  # default directory in savefig dialog box,
  # leave empty to always use current working directory
savefig.transparent : False  # setting that controls whether figures are saved with a
  # transparent background by default
savefig.frameon : True
savefig.orientation : portrait

nbagg.transparent: True

# tk backend params
tk.window_focus   : False   # Maintain shell focus for TkAgg

# ps backend params
ps.papersize : letter  # auto, letter, legal, ledger, A0-A10, B0-B10
ps.useafm     : False    # use of afm fonts, results in small files
ps.usedistiller : False  # can be: None, ghostscript or xpdf
  # Experimental: may produce smaller files.
  # xpdf intended for production of publication quality files,
  # but requires ghostscript, xpdf and ps2eps
ps.distiller.res : 6000   # dpi
ps.fonttype : 3        # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
pdf.compression : 6 # integer from 0 to 9
  # 0 disables compression (good for debugging)
pdf.fonttype : 3   # Output Type 3 (Type3) or Type 42 (TrueType)
pdf.inheritcolor : False
pdf.use14corefonts : False

# pgf backend params
pgf.debug : False
pgf.texsystem : xelatex
pgf.rcfonts : True
pgf.preamble :

# svg backend params
svg.image_inline : True   # write raster image data directly into the svg file
svg.image_noscale : False  # suppress scaling of raster data embedded in SVG
svg.fonttype : path     # How to handle SVG fonts:
  #  'none': Assume fonts are installed on the machine where the SVG will be viewed.
  #  'path': Embed characters as paths -- supported by most SVG renderers
  #  'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
  #         Opera and Safari

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
verbose.level : silent  # one of silent, helpful, debug, debug-annoying
verbose.fileo : sys.stdout # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : '')

keymap.fullscreen : f, ctrl+f   # toggling
keymap.home : h, r, home       # home or reset mnemonic
keymap.back : left, c, backspace # forward / backward keys to enable
keymap.forward : right, v      # left handed quick navigation
keymap.pan : p                  # pan mnemonic
keymap.zoom : o                 # zoom mnemonic
keymap.save : s, ctrl+s         # saving current figure
keymap.quit : ctrl+w, cmd+w     # close the current figure
keymap.grid : g                  # switching on/off a grid in current axes
keymap.yscale : l               # toggle scaling of y-axes ('log'/'linear')
keymap.xscale : k, L            # toggle scaling of x-axes ('log'/'linear')
keymap.all_axes : a              # enable all axes

toolbar: toolbar2

###ANIMATION settings

animation.writer : ffmpeg   # MovieWriter 'backend' to use
animation.codec : mpeg4    # Codec to use for writing movie
animation.bitrate : -1     # Controls size/quality tradeoff for movie.
                          # -1 implies let utility auto-determine
animation.frame_format : png # Controls frame format used by temp files
animation.ffmepg_path : ffmpeg # Path to ffmpeg binary. Without full path
                               # $PATH is searched
animation.ffmepg_args :     # Additional arguments to pass to ffmpeg
animation.avconv_path : avconv # Path to avconv binary. Without full path
                               # $PATH is searched
animation.avconv_args:  # Additional arguments to pass to avconv
animation.mencoder_path: mencoder
   # Path to mencoder binary. Without full path
   # $PATH is searched
animation.mencoder_args:  # Additional arguments to pass to mencoder
animation.convert_path: convert  # Path to ImageMagick's convert binary.
   # On Windows use the full path since convert
   # is also the name of a system tool.
animation.convert_args:
animation.html: none
P6
# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
&&&FFFpppFFFFFFFF$$$$$$$$$FFFFFFmmmFFFFFF   hhh444yyy:::hhh
StartFontMetrics 2.0
Comment Creation Date: Tue Mar 20 13:14:56 1990
Comment UniqueID 28427
Comment VMusage 32912 39804
FontName Times-Italic
FullName Times Italic
FamilyName Times
Weight Medium
ItalicAngle -15.5
IsFixedPitch false
FontBBox -169 -217 1010 883
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Times is a
trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 653
XHeight 441
Ascender 683
Descender -205
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclamation ; B 39 -11 302 667 ;
C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;
C 35 ; WX 500 ; N numbersign ; B 2 0 540 676 ;
C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;
C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;
C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;
C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;
C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;
C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;
KPX B comma 0
KPX B U -10
KPX B A -25

KPX D period 0
KPX D comma 0
KPX D Y -40
KPX D W -40
KPX D V -40
KPX D A -35

KPX F r -55
KPX F period -135
KPX F o -105
KPX F i -45
KPX F e -75
KPX F comma -135
KPX F a -75
KPX F A -115

KPX G period 0
KPX G comma 0

KPX J u -35
KPX J period -25
KPX J o -25
KPX J e -25
KPX J comma -25
KPX J a -35
KPX J A -40

KPX K y -40
KPX K u -40
KPX K o -40
KPX K e -35
KPX K O -50

KPX L y -30
KPX L quoteright -37
KPX L quotedblright 0
KPX L Y -20
KPX L W -55
KPX L V -55
KPX L T -20

KPX N period 0
KPX N comma 0
KPX N A -27
KPX space A -18

KPX v period -74
KPX v o 0
KPX v e 0
KPX v comma -74
KPX v a 0

KPX w period -74
KPX w o 0
KPX w h 0
KPX w e 0
KPX w comma -74
KPX w a 0

KPX x e 0

KPX y period -55
KPX y o 0
KPX y e 0
KPX y comma -55
KPX y a 0

KPX z o 0
KPX z e 0
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 139 212 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 144 212 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 139 212 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 149 212 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 129 192 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 139 212 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 149 212 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 169 212 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 159 212 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 149 212 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 10 212 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 40 212 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 30 212 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 10 212 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 177 212 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 195 212 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 230 212 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 230 212 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 205 212 ;
Font Metrics for the 14 PDF Core Fonts
======================================

This directory contains font metrics for the 14 PDF Core Fonts, downloaded from Adobe. The title and this paragraph were added by Matplotlib developers. The download URL was <http://partners.adobe.com/public/developer/font/index.html>.

This file and the 14 PostScript(R) AFM files it accompanies may be used, copied, and distributed for any purpose and without charge, with or without modification, provided that all copyright notices are retained; that the AFM files are not distributed without this file; that all modifications to this file or any of the AFM files are prominently noted in the modified file(s); and that this paragraph is not modified. Adobe Systems has no responsibility or obligation to support the use of the AFM files.

StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:20 1990
Comment UniqueID 5000774
FontName CMEX10
EncodingScheme FontSpecific
FullName CMEX10
FamilyName Computer Modern
Weight Medium
ItalicAngle 0
IsFixedPitch false
Version 1.00
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -24 -2960 1454 772
XHeight 430.556
Comment CapHeight 0
Ascender 750
Comment Descender -1760
Descender -2960
Comment FontID CMEX
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX math extension
Comment Space 0 0 0
Comment ExtraSpace 0
Comment Quad 1000
Comment DefaultRuleThickness 40
Comment BigOpSpacing 111.111 166.667 200 600 100
Comment Ascendible characters (74)% macro - PS charname
Comment Ascending 0, 16, 18, 32, 48% ( - parenleft
Comment Ascending 1, 17, 19, 33, 49% ) - parenright
Comment Ascending 2, 104, 20, 34, 50% [ - bracketleft
Comment Ascending 3, 105, 21, 35, 51% ] - bracketright
Comment Ascending 4, 106, 22, 36, 52% lfloor - floorleft
# This is a sample matplotlib configuration file - you can find a copy
# of it on your system in
# site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it
# there, please note that it will be overwritten in your next install.
# If you want to keep a permanent local copy that will not be
# overwritten, place it in the following location:
# unix/linux:
#   $HOME/.config/matplotlib/matplotlibrc or
#   $XDG_CONFIG_HOME/matplotlib/matplotlibrc (if $XDG_CONFIG_HOME is set)
# other platforms:
#   $HOME/matplotlibrc
#
# See http://matplotlib.org/users/customizing.html#the-matplotlibrc-file for
# more details on the paths which are checked for the configuration file.
#
# This file is best viewed in an editor which supports python mode
# syntax highlighting. Blank lines, or lines starting with a comment
# symbol, are ignored, as are trailing comments. Other lines must
# have the format
#   key : val # optional comment
#
# Colors: for the color values below, you can either use - a
# matplotlib color string, such as r, k, or b - an rgb tuple, such as
# (1.0, 0.5, 0.0) - a hex string, such as ff00ff or #ff00ff - a scalar
# grayscale intensity such as 0.75 - a legal html color name, e.g., red,
# blue, darkslategray

##### CONFIGURATION BEGINS HERE

# The default backend; one of GTK GTKAgg GTKCairo GTK3Agg GTK3Cairo
# CocoaAgg MacOSX Qt4Agg Qt5Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG
# Template.
# You can also deploy your own backend outside of matplotlib by
# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'.
backend      : qt4agg

# If you are using the Qt4Agg backend, you can choose here
# to use the PyQt4 bindings or the newer PySide bindings to
# the underlying Qt4 toolkit.
#backend.qt4 : PyQt4        # PyQt4 | PySide

# Note that this can be overridden by the environment variable
# QT_API used by Enthought Tool Suite (ETS); valid values are
# "pyqt" and "pyside". The "pyqt" setting has the side effect of
# forcing the use of Version 2 API for QString and QVariant.

# The port to use for the web server in the WebAgg backend.
# webagg.port : 8888

# If webagg.port is unavailable, a number of other random ports will
# be tried until one that is available is found.
# webagg.port_retries : 50

# When True, open the webbrowser to the plot that is shown
# webagg.open_in_browser : True

# When True, the figures rendered in the nbagg backend are created with
# a transparent background.
# nbagg.transparent : True

# if you are running pyplot inside a GUI and your backend choice
# conflicts, we will automatically try to find a compatible one for
# you if backend_fallback is True
#backend_fallback : True

#interactive : False
#toolbar : toolbar2   # None | toolbar2 ("classic" is deprecated)
#timezone : UTC       # a pytz timezone string, e.g., US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
# location. This is where the matplotlib fonts, bitmaps, etc reside
#datapath : /home/jdhunter/mpldata

### LINES
# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
#lines.linewidth : 1.0      # line width in points
#lines.linestyle : -        # solid line
#lines.color      : blue     # has no affect on plot(); see axes.prop_cycle
#lines.marker     : None      # the default marker
#lines.markeredgewidth : 0.5  # the line width around the marker symbol
#lines.markersize : 6        # markersize, in points
#lines.dash_joinstyle : miter # miter|round|bevel
#lines.dash_capstyle : butt   # butt|round|projecting
#lines.solid_joinstyle : miter # miter|round|bevel
#lines.solid_capstyle : projecting # butt|round|projecting
#lines.antialiased : True     # render lines in antialiased (no jaggies)

#markers.fillstyle: full # full|left|right|bottom|top|none

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
# circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
#patch.linewidth     : 1.0   # edge width in points
#patch.facecolor     : blue
### FONT

# patch.edgecolor        : black
# patch.antialiased      : True    # render patches in antialiased (no jaggies)

#### font properties used by text.Text. See
# http://matplotlib.org/api/font_manager_api.html for more
# information on font properties. The 6 font properties used for font
# matching are given below with their default values.

# # The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# # The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# # The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
#
# # The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.
#
# # The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.
#
# # The font.size property is the default font size for text, given in pts.
# # 12pt is the standard value.
#
# font.family         : sans-serif
# font.style          : normal
# font.variant        : normal
# font.weight         : medium
# font.stretch        : normal
# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller

#font.size : 12.0

#font.serif : Bitstream Vera Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman, Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif

#font.sans-serif : Bitstream Vera Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif

#font.cursive : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive

#font.fantasy : Comic Sans MS, Chicago, Charcoal, Impact, Western, Humor Sans, fantasy

#font.monospace : Bitstream Vera Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT

# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties

#text.color : black

### LaTeX customizations. See http://wiki.scipy.org/Cookbook/Matplotlib/UsingTex

#text.usetex : False # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list

#text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.

#text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphixc,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

#text.dvipng.hack : None # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version
#text.hinting : auto  # May be one of the following:
  # 'none': Perform no hinting
  # 'auto': Use freetype's autohinter
  # 'native': Use the hinting information in the
    #          font file, if available, and if your
    #          freetype library supports it
  # 'either': Use the native hinting information,
    #          or the autohinter if none is available.
  # For backward compatibility, this value may also be
    # True === 'auto' or False === 'none'.
#text.hinting_factor : 8  # Specifies the amount of softness for hinting in the
  # horizontal direction. A value of 1 will hint to full
  # pixels. A value of 2 will hint to half pixels etc.
#text.antialiased : True  # If True (default), the text will be antialiased.
  # This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
#mathtext.cal : cursive
#mathtext.rm : serif
#mathtext.tt : monospace
#mathtext.it : serif:italic
#mathtext.bf : serif:bold
#mathtext.sf : sans
#mathtext.fontset : cm  # Should be 'cm' (Computer Modern), 'stix',
  # 'stixsans' or 'custom'
#mathtext.fallback_to_cm : True  # When True, use symbols from the Computer Modern
  # fonts when a symbol can not be found in one of
  # the custom math fonts.
#mathtext.default : it  # The default font to use for math.
  # Can be any of the LaTeX font names, including
  # the special name "regular" for the same font
  # used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default fontsizes for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
#axes.hold : True  # whether to clear the axes by default on
#axes.facecolor : white  # axes background color
#axes.edgecolor : black  # axes edge color
#axes.linewidth : 1.0  # edge linewidth
#axes.grid           : False  # display grid or not
#axes.titlesize      : large   # fontsize of the axes title
#axes.labelsize      : medium  # fontsize of the x any y labels
#axes.labelpad       : 5.0     # space between label and axis
#axes.labelweight    : normal  # weight of the x and y labels
#axes.labelcolor     : black
#axes.axisbelow      : False   # whether axis gridlines and ticks are below
# the axes elements (lines, text, etc)

#axes.formatter.limits : -7, 7 # use scientific notation if log10
# of the axis range is smaller than the
# first or larger than the second
#axes.formatter.use_locale : False # When True, format tick labels
# according to the user's locale.
# For example, use ',' as a decimal
# separator in the fr_FR locale.
#axes.formatter.use_mathtext : False # When True, use mathtext for scientific
# notation.
#axes.formatter.useoffset : True    # If True, the tick label formatter
# will default to labeling ticks relative
# to an offset when the data range is very
# small compared to the minimum absolute
# value of the data.

#axes.unicode_minus  : True    # use unicode for the minus symbol
# rather than hyphen. See
# http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
#axes.prop_cycle    : cycler('color', 'bgrcmyk')
# color cycle for plot lines
# as list of string colorspecs:
# single letter, long name, or
# web-style hex
#axes.xmargin        : 0  # x margin. See `axes.Axes.margins`
#axes.ymargin        : 0  # y margin See `axes.Axes.margins`

#polaraxes.grid      : True    # display grid on polar axes
#axes3d.grid         : True    # display grid on 3d axes

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
#xtick.major.size    : 4  # major tick size in points
#xtick.minor.size    : 2  # minor tick size in points
#xtick.major.width   : 0.5  # major tick width in points
#xtick.minor.width   : 0.5  # minor tick width in points
#xtick.major.pad     : 4  # distance to major tick label in points
#xtick.minor.pad     : 4  # distance to the minor tick label in points
#xtick.color         : k  # color of the tick labels
#xtick.labelsize     : medium  # fontsize of the tick labels
#xtick.direction      : in     # direction: in, out, or inout

#ytick.major.size     : 4      # major tick size in points
#ytick.minor.size     : 2      # minor tick size in points
#ytick.major.width    : 0.5    # major tick width in points
#ytick.minor.width    : 0.5    # minor tick width in points
#ytick.major.pad      : 4      # distance to major tick label in points
#ytick.minor.pad      : 4      # distance to the minor tick label in points
#ytick.color          : k      # color of the tick labels
#ytick.labelsize      : medium # fontsize of the tick labels
#ytick.direction      : in     # direction: in, out, or inout

### GRIDS
#grid.color       : black   # grid color
#grid.linestyle   : :       # dotted
#grid.linewidth   : 0.5     # in points
#grid.alpha       : 1.0     # transparency, between 0.0 and 1.0

### Legend
#legend.fancybox  : False  # if True, use a rounded box for the
                        # legend, else a rectangle
#legend.isaxes     : True
#legend.numpoints : 2      # the number of points in the legend line
#legend.fontsize  : large
#legend.borderpad : 0.5    # border whitespace in fontsize units
#legend.markerscale: 1.0    # the relative size of legend markers vs. original
# the following dimensions are in axes coords
#legend.labelspace : 0.5    # the vertical space between the legend entries in fraction of fontsize
#legend.handlelength: 2.     # the length of the legend lines in fraction of fontsize
#legend.handleheight: 0.7     # the height of the legend handle in fraction of fontsize
#legend.handletextpad: 0.8     # the space between the legend line and legend text in fraction of fontsize
#legend.borderxesp: 0.5    # the border between the axes and legend edge in fraction of fontsize
#legend.columnspacing: 2.     # the border between the axes and legend edge in fraction of fontsize
#legend.shadow     : False
#legend.frameon    : True    # whether or not to draw a frame around legend
#legend.framealpha : None    # opacity of of legend frame
#legend.scatterpoints: 3 # number of scatter points

### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
#figure.titlesize : medium     # size of the figure title
#figure.titleweight : normal   # weight of the figure title
#figure.figsize   : 8, 6       # figure size in inches
#figure.dpi       : 80        # figure dots per inch
#figure.facecolor : 0.75      # figure facecolor; 0.75 is scalar gray
#figure.edgecolor : white     # figure edgecolor
#figure.autolayout : False    # When True, automatically adjust subplot
# parameters to make the plot fit the figure

```python
#figure.max_open_warning : 20  # The maximum number of figures to open through
# the pyplot interface before emitting a warning.
# If less than one this feature is disabled.
```

```python
# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
#figure.subplot.left    : 0.125  # the left side of the subplots of the figure
#figure.subplot.right   : 0.9    # the right side of the subplots of the figure
#figure.subplot.bottom  : 0.1    # the bottom of the subplots of the figure
#figure.subplot.top     : 0.9    # the top of the subplots of the figure
#figure.subplot.wspace  : 0.2    # the amount of width reserved for blank space between subplots
#figure.subplot.hspace  : 0.2    # the amount of height reserved for white space between subplots
```

### IMAGES
```python
#image.aspect : equal             # equal | auto | a number
#image.interpolation  : bilinear  # see help(imshow) for options
#image.cmap   : jet               # gray | jet etc...
#image.lut    : 256               # the size of the colormap lookup table
#image.origin : upper             # lower | upper
#image.resample  : False
#image.composite_image : True     # When True, all the images on a set of axes are
# combined into a single composite image before
# saving a figure as a vector graphics file,
# such as a PDF.
```

### CONTOUR PLOTS
```python
#contour.negative_linestyle : dashed # dashed | solid
#contour.corner_mask        : True   # True | False | legacy
```

### ERRORBAR PLOTS
```python
#errorbar.capsize : 3             # length of end cap on error bars in pixels
```

### Agg rendering
```python
### Warning: experimental, 2008/10/10
#agg.path.chunkszie : 0         # 0 to disable; values in the range
# 10000 to 100000 can improve speed slightly
# and prevent an Agg rendering failure
# when plotting very large data sets,
# especially if they are very gappy.
# It may cause minor artifacts, though.
# A value of 20000 is probably a good
# starting point.
```

### SAVING FIGURES
```python
#path.simplify : True     # When True, simplify paths by removing "invisible"
# points to reduce file size and increase rendering
# speed
#path.simplify_threshold : 0.1  # The threshold of similarity below which
```
# vertices will be removed in the simplification
# process

#path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
# the nearest pixel when certain criteria are met. When False, # paths will never be snapped.

#path.sketch : None # May be none, or a 3-tuple of the form (scale, length, # randomness).
# *scale* is the amplitude of the wiggle
# perpendicular to the line (in pixels). *length* # is the length of the wiggle along the line (in # pixels). *randomness* is the factor by which # the length is randomly scaled.

# the default savefig params can be different from the display params # e.g., you may want a higher resolution, or to make the figure # background white

#savefig.dpi : 100 # figure dots per inch

#savefig.facecolor : white # figure facecolor when saving

#savefig.edgecolor : white # figure edgecolor when saving

#savefig.format : png # png, ps, pdf, svg

#savefig.bbox : standard # 'tight' or 'standard'. # 'tight' is incompatible with pipe-based animation # backsends but will work with temporary file based ones: # e.g. setting animation.writer to ffmpeg will not work, # use ffmpeg_file instead

#savefig.pad_inches : 0.1 # Padding to be used when bbox is set to 'tight'

#savefig.jpeg_quality : 95 # when a jpeg is saved, the default quality parameter.

#savefig.directory : ~ # default directory in savefig dialog box, # leave empty to always use current working directory

#savefig.transparent : False # setting that controls whether figures are saved with a # transparent background by default

# tk backend params

#tk.window_focus : False # Maintain shell focus for TkAgg

# ps backend params

#ps.papersize : letter # auto, letter, legal, ledger, A0-A10, B0-B10

#ps.useafm : False # use of afm fonts, results in small files

#ps.usedistiller : False # can be: None, ghostscript or xpdf # Experimental: may produce smaller files. # xpdf intended for production of publication quality files, # but requires ghostscript, xpdf and ps2eps

#ps.distiller.res : 6000 # dpi

#ps.fonttype : 3 # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params

#pdf.compression : 6 # integer from 0 to 9 # 0 disables compression (good for debugging)
#pdf.fonttype       : 3         # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True       # write raster image data directly into the svg file
#svg.image_noscale : False     # suppress scaling of raster data embedded in SVG
#svg.fonttype : 'path'        # How to handle SVG fonts:
#    'none': Assume fonts are installed on the machine where the SVG will be viewed.
#    'path': Embed characters as paths -- supported by most SVG renderers
#    'svgfont': Embed characters as SVG fonts -- supported only by Chrome, Opera and Safari

# docstring params
#docstring.hardcopy = False  # set this when you want to generate hardcopy docstring

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.

# You can access the verbose instance in your code
# from matplotlib import verbose.
#verbose.level  : silent      # one of silent, helpful, debug, debug-annoying
#verbose.fileo  : sys.stdout  # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : "")

#keymap.fullscreen : f     # toggling
#keymap.home : h, r, home  # home or reset mnemonic
#keymap.back : left, c, backspace  # forward / backward keys to enable
#keymap.forward : right, v   # left handed quick navigation
#keymap.pan : p            # pan mnemonic
#keymap.zoom : o           # zoom mnemonic
#keymap.save : s           # saving current figure
#keymap.quit : ctrl+w, cmd+w # close the current figure
#keymap.grid : g           # switching on/off a grid in current axes
#keymap.yscale : l         # toggle scaling of y-axes ('log'/'linear')
# keymap.xscale : L, k    # toggle scaling of x-axes ('log'/linear')
# keymap.all_axes : a     # enable all axes

# Control location of examples data files
# examples.directory : " " # directory to look in for custom installation

### ANIMATION settings
#animation.html : 'none'    # How to display the animation as HTML in
 # the IPython notebook. 'html5' uses
 # HTML5 video tag.
#animation.writer : ffmpeg   # MovieWriter 'backend' to use
#animation.codec : mpeg4    # Codec to use for writing movie
#animation.bitrate : -1     # Controls size/quality tradeoff for movie.
 # -1 implies let utility auto-determine
#animation.frame_format : 'png' # Controls frame format used by temp files
#animation.ffmpeg_path : 'ffmpeg' # Path to ffmpeg binary. Without full path
 # $PATH is searched
#animation.mencoder_path : 'mencoder' # Path to mencoder binary. Without full path
 # $PATH is searched
#animation.avconv_path : 'avconv'   # Path to avconv binary. Without full path
 # $PATH is searched
#animation.mencoder_args : " "    # Additional arguments to pass to ffmpeg
#animation.avconv_args : " "      # Additional arguments to pass to avconv
#animation.convert_path : 'convert' # Path to ImageMagick's convert binary.
 # On Windows use the full path since convert
 # is also the name of a system tool.

StartFontMetrics 2.0
Comment Creation Date: Mon Jul 2 22:48:39 1990
Comment UniqueID 31799
Comment VMusage 37656 48548
FontName Palatino-BoldItalic
FullName Palatino Bold Italic
FamilyName Palatino
Weight Bold
ItalicAngle -10
IsFixedPitch false
FontBBox -170 -271 1073 926
UnderlinePosition -100
UnderlineThickness 50
Version 001.005
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Palatino is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 681
XHeight 469
Ascender 726
Descender -271
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclamation ; B 58 -17 322 695 ;
C 34 ; WX 500 ; N quotedbl ; B 137 467 493 720 ;
C 35 ; WX 500 ; N numbersign ; B 4 0 496 673 ;
C 36 ; WX 500 ; N dollar ; B 20 -108 477 737 ;
C 37 ; WX 889 ; N percent ; B 56 -17 790 697 ;
C 38 ; WX 833 ; N ampersand ; B 74 -17 811 695 ;
C 39 ; WX 278 ; N quote ; B 76 431 302 720 ;
C 40 ; WX 333 ; N parenleft ; B 58 -129 368 723 ;
C 41 ; WX 333 ; N parenright ; B -12 -129 298 723 ;
C 42 ; WX 444 ; N asterisk ; B 84 332 439 695 ;
C 43 ; WX 606 ; N plus ; B 50 -5 556 501 ;
C 44 ; WX 500 ; N comma ; B -33 -164 208 147 ;
C 45 ; WX 389 ; N hyphen ; B 37 198 362 300 ;
C 46 ; WX 250 ; N period ; B 48 -17 187 135 ;
C 47 ; WX 315 ; N slash ; B 1 -17 315 720 ;
C 48 ; WX 500 ; N zero ; B 42 -17 490 683 ;
C 49 ; WX 500 ; N one ; B 41 -3 434 678 ;
C 50 ; WX 500 ; N two ; B 1 -3 454 683 ;
C 51 ; WX 500 ; N three ; B 8 -17 450 683 ;
C 52 ; WX 500 ; N four ; B 3 -3 487 683 ;
C 53 ; WX 500 ; N five ; B 14 -17 481 675 ;
C 54 ; WX 500 ; N six ; B 39 -17 488 683 ;
C 55 ; WX 500 ; N seven ; B 69 -3 544 674 ;
C 56 ; WX 500 ; N eight ; B 26 -17 484 683 ;
C 57 ; WX 500 ; N nine ; B 27 -17 491 683 ;
C 58 ; WX 250 ; N colon ; B 38 -17 236 452 ;
C 59 ; WX 250 ; N semicolon ; B -33 -164 247 452 ;
C 60 ; WX 606 ; N less ; B 49 -21 558 517 ;
C 61 ; WX 606 ; N equal ; B 51 106 555 390 ;
C 62 ; WX 606 ; N greater ; B 48 -21 557 517 ;
C 63 ; WX 444 ; N question ; B 91 -17 450 695 ;
C 64 ; WX 833 ; N at ; B 82 -12 744 681 ;
C 65 ; WX 722 ; N A ; B -35 -3 685 683 ;
C 66 ; WX 667 ; N B ; B 8 -3 629 681 ;
C 67 ; WX 685 ; N C ; B 69 -17 695 695 ;
C 68 ; WX 778 ; N D ; B 0 -3 747 682 ;
C 69 ; WX 611 ; N E ; B 11 -3 606 681 ;
C 70 ; WX 556 ; N F ; B -6 -3 593 681 ;
C 71 ; WX 778 ; N G ; B 72 -17 750 695 ;
C 72 ; WX 778 ; N H ; B -12 -3 826 681 ;
C 73 ; WX 389 ; N I ; B -1 -3 412 681 ;
C 74 ; WX 389 ; N J ; B -29 -207 417 681 ;
C 75 ; WX 722 ; N K ; B -10 -3 746 681 ;
C 76 ; WX 611 ; N L ; B 26 -3 578 681 ;

Open Source Used In Secure Workload 3.6.1.1 5799
KPX quoteright t -18
KPX quoteright space -37
KPX quoteright s -37
KPX quoteright quoteright -55

KPX r quoteright 55
KPX r q -18
KPX r period -55
KPX r o -18
KPX r h -18
KPX r g -18
KPX r e -18
KPX r comma -55
KPX r c -18

KPX v period -55
KPX v comma -55

KPX w period -55
KPX w comma -55

KPX y period -37
KPX y comma -37
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 212 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 212 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 212 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 212 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 83 212 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 212 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 212 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 212 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 212 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 212 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 212 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 212 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 212 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 212 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 223 212 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 212 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 250 212 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 212 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 250 212 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 250 212 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 212 ;
EndCharMetrics
StartKernData
StartKernPairs 128

KPX A y -18
KPX A w -18
KPX A v -18
KPX A quoteright -74
KPX A quotedblright -74
KPX A Y -91
KPX A W -74
KPX A V -74
KPX A U -18
KPX A T -55

KPX C period -18
KPX C comma -18

KPX D period -25
KPX D comma -25

KPX F r -18
KPX F period -125
KPX F o -55
KPX F i -18
KPX F e -55
KPX F comma -125
KPX F a -74

KPX J u -18
KPX J period -55
KPX J o -18
KPX J e -18
KPX J comma -55
KPX J a -18
KPX J A -18

KPX K y -25
KPX K u -18

KPX L y -25
KPX L quoteright -100
KPX L quotedblright -100
KPX L Y -74
KPX L W -74
KPX L V -100
KPX L T -100
The Anti-Grain Geometry Project
A high quality rendering engine for C++
http://antigrain.com

Anti-Grain Geometry - Version 2.4
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StartFontMetrics 2.0
Comment Creation Date: Thu Mar 15 10:44:33 1990
Comment UniqueID 28371
Comment VMusage 7614 43068
FontName Helvetica-BoldOblique
FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Helvetica is a
trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StartCharMetrics 228
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;
C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;
C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;
C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;
KPX Q comma 20
KPX Q U -10

KPX R Y -50
KPX R W -40
KPX R V -50
KPX R U -20
KPX R T -20
KPX R O -20

KPX T y -60
KPX T w -60
KPX T u -90
KPX T semicolon -40
KPX T r -80
KPX T period -80
KPX T o -80
KPX T hyphen -120
KPX T e -60
KPX T comma -80
KPX T colon -40
KPX T a -80
KPX T O -40
KPX T A -90

KPX U period -30
KPX U comma -30
KPX U A -50

KPX V u -60
KPX V semicolon -40
KPX V period -120
KPX V o -90
KPX V hyphen -80
KPX V e -50
KPX V comma -120
KPX V colon -40
KPX V a -60
KPX V O -50
KPX V G -50
KPX V A -80

KPX W y -20
KPX W u -45
KPX W semicolon -10
KPX W period -80
KPX W o -60
KPX W hyphen -40
KPX quotereight d -80

KPX r y 10
KPX r v 10
KPX r t 20
KPX r s -15
KPX r q -20
KPX r period -60
KPX r o -20
KPX r hyphen -20
KPX r g -15
KPX r d -20
KPX r comma -60
KPX r c -20

KPX s w -15

KPX semicolon space -40

KPX space quotearrow -60
KPX space quoteleft -60
KPX space quotedblleft -80
KPX space Y -120
KPX space W -80
KPX space V -80
KPX space T -100

KPX v period -80
KPX v o -30
KPX v comma -80
KPX v a -20

KPX w period -40
KPX w o -20
KPX w comma -40

KPX x e -10

KPX y period -80
KPX y o -25
KPX y e -10
KPX y comma -80
KPX y a -30

KPX z e 10
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 235 186 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 235 186 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 235 186 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 235 186 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 235 186 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 235 186 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 215 0 ;
CC Ecute 2 ; PCC E 0 0 ; PCC acute 207 186 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 207 186 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 207 186 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 207 186 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 13 186 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 13 186 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 13 186 ;
CC Igave 2 ; PCC I 0 0 ; PCC grave 13 186 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 235 186 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 263 186 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 263 186 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 263 186 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 263 186 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 235 186 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 235 186 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 186 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 235 186 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 207 186 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 207 186 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 179 186 ;
CC aacute 2 ; PCC A 0 0 ; PCC acute 112 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 0 ;
CC ccedilla 2 ; PCC C 0 0 ; PCC cedilla 132 0 ;
CC ecute 2 ; PCC e 0 0 ; PCC acute 139 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 139 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 139 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 139 0 ;
CC iacute 2 ; PCC i 0 0 ; PCC acute -27 0 ;
CC icircumflex 2 ; PCC i 0 0 ; PCC circumflex -27 0 ;
CC idieresis 2 ; PCC i 0 0 ; PCC dieresis -27 0 ;
CC igrave 2 ; PCC i 0 0 ; PCC grave -27 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 139 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 139 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;

Open Source Used In Secure Workload 3.6.1.1 5833
The version number of these fonts is 1.10 to distinguish them from the beta test fonts.

Note that the Vera copyright is incorporated in the fonts themselves. The License field in the fonts contains the copyright license as it appears below. The TrueType copyright field is not large enough to contain the full license, so the license is incorporated (as you might think if you thought about it) into the license field, which unfortunately can be obscure to find. (In pfaedit, see: Element->Font Info->TTFNames->License).

Our apologies for it taking longer to complete the fonts than planned. Beta testers requested a tighter line spacing (less leading) and Jim Lyles redesigned Vera’s accents to bring its line spacing to more typical of other fonts. This took additional time and effort. Our thanks to Jim for this effort above and beyond the call of duty.

There are four monospace and sans faces (normal, oblique, bold, bold oblique) and two serif faces (normal and bold). Fontconfig/Xft2 (see www.fontconfig.org) can artificially oblique the serif faces for you: this loses hinting and distorts the faces slightly, but is visibly different than normal and bold, and reasonably pleasing.

On systems with fontconfig 2.0 or 2.1 installed, making your sans, serif and monospace fonts default to these fonts is very easy. Just drop the file local.conf into your /etc/fonts directory. This will make the Bitstream fonts your default fonts for all applications using fontconfig (if sans, serif, or monospace names are used, as they often are as default values in many desktops). The XML in local.conf may need modification to enable subpixel decimation, if appropriate, however, the commented out phrase does so for XFree86 4.3, in the case that the server does not have sufficient information to identify the use of a flat panel. Fontconfig 2.2 adds Vera to the list of font families and will, by default use it as the default sans, serif and
monospace fonts.

During the testing of the final Vera fonts, we learned that screen fonts in general are only typically hinted to work correctly at integer pixel sizes. Vera is coded internally for integer sizes only. We need to investigate further to see if there are commonly used fonts that are hinted to be rounded but are not rounded to integer sizes due to oversights in their coding.

Most fonts work best at 8 pixels and below if anti-aliased only, as the amount of work required to hint well at smaller and smaller sizes becomes astronomical. GASP tables are typically used to control whether hinting is used or not, but Freetype/Xft does not currently support GASP tables (which are present in Vera).

To mitigate this problem, both for Vera and other fonts, there will be (very shortly) a new fontconfig 2.2 release that will, by default not apply hints if the size is below 8 pixels. If you should have a font that in fact has been hinted more aggressively, you can use fontconfig to note this exception. We believe this should improve many hinted fonts in addition to Vera, though implementing GASP support is likely the right long term solution.

Font rendering in Gnome or KDE is the combination of algorithms in Xft2 and Freetype, along with hinting in the fonts themselves. It is vital to have sufficient information to disentangle problems that you may observe.

Note that having your font rendering system set up correctly is vital to proper judgement of problems of the fonts:

* Freetype may or may not be configured to in ways that may implement execution of possibly patented (in some parts of the world) TrueType hinting algorithms, particularly at small sizes. Best results are obtained while using these algorithms.

* The freetype autohinter (used when the possibly patented algorithms are not used) continues to improve with each release. If you are using the autohinter, please ensure you are using an up to date version of freetype before reporting problems.

* Please identify what version of freetype you are using in any bug reports, and how your freetype is configured.

* Make sure you are not using the freetype version included in XFree86 4.3, as it has bugs that significantly degrade most fonts, including Vera. If you build XFree86 4.3 from source yourself, you may have installed this broken version without intending it (as I
did). Vera was verified with the recently released Freetype 2.1.4. On many systems, 'ldd' can be used to see which freetype shared library is actually being used.

* Xft/X Render does not (yet) implement gamma correction. This causes significant problems rendering white text on a black background (causing partial pixels to be insufficiently shaded) if the gamma of your monitor has not been compensated for, and minor problems with black text on a white background. The program "xgamma" can be used to set a gamma correction value in the X server's color palette. Most monitors have a gamma near 2.

* Note that the Vera family uses minimal delta hinting. Your results on other systems when not used anti-aliased may not be entirely satisfying. We are primarily interested in reports of problems on open source systems implementing Xft2/fontconfig/freetype (which implements antialiasing and hinting adjustments, and sophisticated subpixel decimation on flatpanels). Also, the algorithms used by Xft2 adjust the hints to integer widths and the results are crisper on open source systems than on Windows or MacIntosh.

* Your fontconfig may (probably does) predate the release of fontconfig 2.2, and you may see artifacts not present when the font is used at very small sizes with hinting enabled. "vc-list -V" can be used to see what version you have installed.

We believe and hope that these fonts will resolve the problems reported during beta test. The largest change is the reduction of leading (interline spacing), which had annoyed a number of people, and reduced Vera's utility for some applications. The Vera monospace font should also now make '0' and 'O' and '1' and 'l' more clearly distinguishable.

The version of these fonts is version 1.10. Fontconfig should be choosing the new version of the fonts if both the released fonts and beta test fonts are installed (though please discard them: they have names of form tt20[1-12]gn.ttf). Note that older versions of fontconfig sometimes did not rebuild their cache correctly when new fonts are installed: please upgrade to fontconfig 2.2. "fc-cache -f" can be used to force rebuilding fontconfig's cache files.

If you note problems, please send them to fonts at gnome dot org, with exactly which face and size and unicode point you observe the problem at. The xfd utility from XFree86 CVS may be useful for this (e.g., "xfd -fa sans"). A possibly more useful program to examine fonts at a variety of sizes is the "waterfall" program found in Keith Packard's CVS.
$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS login
Logging in to :pserver:anoncvs@keithp.com:2401/local/src/CVS
CVS password: <hit return>
$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS co waterfall
$ cd waterfall
$ xmkmf -a
$ make
# make install
# make install.man

Again, please make sure you are running an up-to-date freetype, and that you are only examining integer sizes.

Reporting Problems
====================

Please send problem reports to fonts at gnome.org, with the following information:

1. Version of Freetype, Xft2 and fontconfig
2. Whether TT hinting is being used, or the autohinter
3. Application being used
4. Character/Unicode code point that has problems (if applicable)
5. Version of which operating system
6. Please include a screenshot, when possible.

Please check the fonts list archives before reporting problems to cut down on duplication.

StartFontMetrics 2.0
Comment Copyright (c) 1985, 1987, 1988, 1989 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Fri Dec 1 12:57:42 1989
Comment UniqueID 26200
Comment VMusage 39281 49041
FontName ZapfDingbats
FullName ITC Zapf Dingbats
FamilyName ITC Zapf Dingbats
Weight Medium
ItalicAngle 0
IsFixedPitch false
FontBBox -1 -143 981 820
UnderlinePosition -98
UnderlineThickness 54
Version 001.004
Notice Copyright (c) 1985, 1987, 1988, 1989 Adobe Systems Incorporated. All rights reserved. ITC Zapf Dingbats is a registered trademark of International Typeface Corporation.
EncodingScheme FontSpecific
StartCharMetrics 202
C -1 ; WX 390 ; N a89 ; B 35 -14 356 705 ;
C -1 ; WX 234 ; N a87 ; B 35 -14 199 705 ;
C -1 ; WX 276 ; N a91 ; B 35 0 242 692 ;
C -1 ; WX 390 ; N a90 ; B 35 -14 355 705 ;
C -1 ; WX 410 ; N a206 ; B 35 0 375 692 ;
C -1 ; WX 317 ; N a94 ; B 35 0 283 692 ;
C -1 ; WX 317 ; N a93 ; B 35 0 283 692 ;
C -1 ; WX 276 ; N a92 ; B 35 0 242 692 ;
C -1 ; WX 334 ; N a96 ; B 35 0 299 692 ;
C -1 ; WX 234 ; N a88 ; B 35 -14 199 705 ;
EndCharMetrics
EndFontMetrics
StartFontMetrics 4.1

Comment Creation Date: Thu May 1 12:38:23 1997
Comment UniqueID 43054
Comment VMusage 37069 48094
FontName Helvetica
FullName Helvetica
FamilyName Helvetica
Weight Medium
ItalicAngle 0
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -166 -225 1000 931
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 523
Ascender 718
Descender -207
StdHW 76
StdVW 88
StartCharMetrics 315
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 278 ; N exclam ; B 90 0 187 718 ;
C 34 ; WX 355 ; N quotedbl ; B 70 463 285 718 ;
C 35 ; WX 556 ; N numbersign ; B 28 0 529 688 ;
C 36 ; WX 556 ; N dollar ; B 32 -115 520 775 ;
C 37 ; WX 889 ; N percent ; B 39 -19 850 703 ;
C 38 ; WX 667 ; N ampersand ; B 44 -15 645 718 ;
C 39 ; WX 222 ; N quoteright ; B 53 463 157 718 ;
C 40 ; WX 333 ; N parenleft ; B 68 -207 299 733 ;
C 41 ; WX 333 ; N parenright ; B 34 -207 265 733 ;
Open Source Used In Secure Workload 3.6.1.1 5848
C -1 ; WX 278 ; N Iogonek ; B -3 -225 211 718 ;
C -1 ; WX 500 ; N kcommaaccent ; B 67 -225 501 718 ;
C -1 ; WX 584 ; N minus ; B 39 216 545 289 ;
C -1 ; WX 278 ; N Icircumflex ; B -6 0 285 929 ;
C -1 ; WX 556 ; N ncaron ; B 65 0 491 734 ;
C -1 ; WX 278 ; N tcommaaccent ; B 14 -225 257 669 ;
C -1 ; WX 584 ; N logicalnot ; B 39 108 545 390 ;
C -1 ; WX 556 ; N odieresis ; B 35 -14 521 706 ;
C -1 ; WX 556 ; N udieresis ; B 68 -15 489 706 ;
C -1 ; WX 549 ; N notequal ; B 12 -35 537 551 ;
C -1 ; WX 556 ; N gcommaaccent ; B 40 -220 499 822 ;
C -1 ; WX 556 ; N eth ; B 35 -15 522 737 ;
C -1 ; WX 500 ; N zcaron ; B 31 0 469 734 ;
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 491 538 ;
C -1 ; WX 333 ; N onesuperior ; B 43 281 222 703 ;
C -1 ; WX 278 ; N imacron ; B 5 0 272 684 ;
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;
EndCharMetrics
StartKernData
StartKernPairs 2705
KPX A C -30
KPX A Cacute -30
KPX A Ccaron -30
KPX A Ccedilla -30
KPX A G -30
KPX A Gbreve -30
KPX A Gcommaaccent -30
KPX A Gcircumflex -30
KPX A Grave -30
KPX A Gmacron -30
KPX A Gslash -30
KPX A Gtilde -30
KPX A Q -30
KPX A T -120
KPX A Tcaron -120
KPX A Tcommaaccent -120
KPX A U -50
KPX A Uacute -50
KPX A Ucircumflex -50
KPX A Udieresis -50
KPX A Ugrave -50
KPX A Uhungarumlaut -50
KPX A Umacron -50
KPX A Uogonek -50
KPX Abreve Uring -50
KPX Abreve V -70
KPX Abreve W -50
KPX Abreve Y -100
KPX Abreve Yacute -100
KPX Abreve Ydieresis -100
KPX Abreve u -30
KPX Abreve uacute -30
KPX Abreve ucircumflex -30
KPX Abreve udieresis -30
KPX Abreve ugrave -30
KPX Abreve uhungarumlaut -30
KPX Abreve umacron -30
KPX Abreve uogonek -30
KPX Abreve uring -30
KPX Abreve v -40
KPX Abreve w -40
KPX Abreve y -40
KPX Abreve yacute -40
KPX Abreve ydieresis -40
KPX Acircumflex C -30
KPX Acircumflex Cacute -30
KPX Acircumflex Ccaron -30
KPX Acircumflex Ccedilla -30
KPX Acircumflex G -30
KPX Acircumflex Gbreve -30
KPX Acircumflex Gcommaaccent -30
KPX Acircumflex O -30
KPX Acircumflex Oacute -30
KPX Acircumflex Ocircumflex -30
KPX Acircumflex Odieresis -30
KPX Acircumflex Ograve -30
KPX Acircumflex Ohungarumlaut -30
KPX Acircumflex U -50
KPX Acircumflex Uacute -50
KPX Acircumflex Ucircumflex -50
KPX Acircumflex Udieresis -50
KPX Acircumflex Ugrave -50
KPX Acircumflex Uhungarumlaut -50
KPX Acircumflex Umacron -50
KPX Acircumflex Uogonek -50
KPX Adieresis Uring -50
KPX Adieresis V -70
KPX Adieresis W -50
KPX Adieresis Y -100
KPX Adieresis Yacute -100
KPX Adieresis Ydieresis -100
KPX Adieresis u -30
KPX Adieresis uacute -30
KPX Adieresis ucircumflex -30
KPX Adieresis udiereesis -30
KPX Adieresis ugrave -30
KPX Adieresis uhungarumlaut -30
KPX Adieresis umacron -30
KPX Adieresis uogonek -30
KPX Adieresis uring -30
KPX Adieresis v -40
KPX Adieresis w -40
KPX Adieresis y -40
KPX Adieresis yacute -40
KPX Adieresis ydieresis -40
KPX Agrave C -30
KPX Agrave Cacute -30
KPX Agrave Ccaron -30
KPX Agrave Ccedilla -30
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KPX C period -30
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KPX F r -45
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KPX w e -10
KPX w comma -60
KPX w a -15

KPX x e -30

KPX y period -100
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KPX y e -20
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KPX y a -20

KPX z o -15
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EndKernData
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CC Agrave 2 ; PCC A 0 0 ; PCC grave 208 195 ;
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CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;
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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FTFPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.
Open Source Used in Secure Workload 3.6.1.1  5983
Open Source Used In Secure Workload 3.6.1.1  5990
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Open Source Used In Secure Workload 3.6.1.1 6006
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KPX D A -40

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KPX F period -80
KPX F o -15
KPX F i 0
KPX F e 0
KPX F comma -80
KPX F a -15
KPX F A -74

KPX G period 0
KPX G comma 0

KPX J u 0
KPX J period 0
KPX J o 0
KPX J e 0
KPX J comma 0
KPX J a 0
KPX J A -60

KPX K y -25
KPX K u -15
KPX K o -35
KPX K e -25
KPX K O -30

KPX L y -55
KPX L quoteright -92
KPX L quotedblright 0
KPX L Y -100
KPX L W -74
KPX L V -100
KPX L T -92

KPX N period 0
KPX N comma 0
KPX N A -35

KPX O period 0
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KPX O X -40
KPX O W -35
KPX O V -50
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KPX O A -35

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KPX P e 0
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KPX P a -15
KPX P A -92

KPX Q period 0
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KPX Q U -10

KPX R Y -65
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KPX R U -40
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KPX S period 0
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KPX T y -80
KPX T w -80
KPX T u -45
KPX T semicolon -55
KPX T r -35
KPX T period -74
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KPX T h 0
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KPX T comma -74
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KPX V u -75
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KPX x e -15

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KPX y o 0
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Open Source Used In Secure Workload 3.6.1.1 6038
Open Source Used In Secure Workload 3.6.1.1  6040
Open Source Used In Secure Workload 3.6.1.1  6046
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Open Source Used In Secure Workload 3.6.1.1  6078
Open Source Used In Secure Workload 3.6.1.1
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KPX recommaaccent q -18
KPX recommaaccent v -10
KPX space A -55
KPX space Aacute -55
KPX space Abreve -55
KPX space Acircumflex -55
KPX space Adieresis -55
KPX space Agrave -55
KPX space Amacron -55
KPX space Aogonek -55
KPX space Aring -55
KPX space Atilde -55
KPX space T -30
KPX space Tcaron -30
KPX space Tcommaaccent -30
KPX space V -45
KPX space W -30
KPX space Y -55
KPX space Yacute -55
KPX space Ydieresis -55
KPX v a -10
KPX v aacute -10
KPX v abreve -10
KPX v acircumflex -10
KPX v adieresis -10
KPX v agrave -10
KPX v amacron -10
KPX v aogonek -10
KPX v aring -10
KPX v atilde -10
KPX v comma -55
KPX v e -10
KPX v eacute -10
KPX v ecaron -10
KPX v ecircumflex -10
KPX v edieresis -10
KPX v edotaccent -10
KPX v egrave -10
KPX v emacron -10
KPX v eogonek -10
KPX v o -10
KPX v oacute -10
KPX v ocircumflex -10
KPX v odieresis -10
KPX v ograve -10
KPX v ohungarumlaut -10
KPX v omacron -10
KPX A Y -100
KPX A W -50
KPX A V -70
KPX A U -50
KPX A T -120
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B period -20
KPX B comma -20
KPX B U -10

KPX C period -30
KPX C comma -30

KPX D period -70
KPX D comma -70
KPX D Y -90
KPX D W -40
KPX D V -70
KPX D A -40

KPX F r -45
KPX F period -150
KPX F o -30
KPX F e -30
KPX F comma -150
KPX F a -50
KPX F A -80

KPX J u -20
KPX J period -30
KPX J comma -30
KPX J a -20
KPX J A -20

KPX K y -50
KPX K u -30
KPX K o -40
KPX K e -40
KPX K O -50

KPX L y -30
KPX L quoteright -160
KPX L quotedblright -140
KPX L Y -140
KPX z o -15
KPX z e -15
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EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 171 195 ;
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CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 171 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 171 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 167 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 171 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;
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CC Egrave 2 ; PCC E 0 0 ; PCC grave 171 195 ;
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CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 12 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 12 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 12 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 202 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 217 195 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 217 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 217 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 217 195 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 217 195 ;
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CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 195 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 195 ;
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CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 148 195 ;
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CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -22 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -22 0 ;
Open Source Used In Secure Workload 3.6.1.1  6101
Open Source Used in Secure Workload 3.6.1.1 6102
KPX P period -200
KPX P o -36
KPX P n -12
KPX P l -15
KPX P i -6
KPX P hyphen -30
KPX P h -15
KPX P e -36
KPX P comma -200
KPX P a -36
KPX P I -20
KPX P H -20
KPX P E -20
KPX P A -85

KPX Q u -6
KPX Q a -18
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KPX Q X -40
KPX Q W -35
KPX Q V -35
KPX Q U -25
KPX Q T -40
KPX Q A -30

KPX R y -20
KPX R u -12
KPX R t -25
KPX R quoteright -10
KPX R quotedblright -10
KPX R o -12
KPX R e -18
KPX R a -6
KPX R Y -32
KPX R X 20
KPX R W -18
KPX R V -26
KPX R U -30
KPX R T -20
KPX R Q -10
KPX R O -10
KPX R G -10
KPX R C -10

KPX S y -35
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KPX S v -40
KPX S u -24
KPX r c -20
KPX s quoteright -40
KPX s quotedblright -40

KPX semicolon space -20

KPX space quotesinglbase -100
KPX space quoteleft -40
KPX space quotedblleft -40
KPX space quotedblbase -100
KPX space Y -60
KPX space W -60
KPX space V -60
KPX space T -40

KPX t period 15
KPX t comma 10

KPX u quoteright -60
KPX u quotedblright -60

KPX v semicolon 20
KPX v quoteright 5
KPX v quotedblright 10
KPX v q -15
KPX v period -75
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KPX v e -15
KPX v d -15
KPX v comma -90
KPX v colon 20
KPX v c -15
KPX v a -15

KPX w semicolon 20
KPX w quoteright 15
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KPX w q -10
KPX w period -60
KPX w o -10
KPX w e -10
KPX w d -10
KPX w comma -68
KPX w colon 20
KPX w c -10

KPX x quoteright -25
Apache-Style Software License for ColorBrewer Color Schemes

Version 1.1

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POSSIBILITY OF SUCH DAMAGE.

# Seaborn colorblind palette
axes.prop_cycle: cycler('color', ['0072B2', '009E73', 'D55E00', 'CC79A7', 'F0E442', '56B4E9'])
patch.facecolor: 0072B2
StartFontMetrics 2.0
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Comment UniqueID 31790
Comment VMusage 36445 47337
fontName Palatino-Roman
fullName Palatino Roman
familyName Palatino
weight roman
italicAngle 0
isFixedPitch false
Fontbbox -166 -283 1021 927
UnderlinePosition -100
UnderlineThickness 50
Version 001.005
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Palatino is a
trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 692
XHeight 469
Ascender 726
Descender -281
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 278 ; N exclam ; B 81 -5 197 694 ;
C 34 ; WX 371 ; N quotedbl ; B 52 469 319 709 ;
C 35 ; WX 500 ; N numbersign ; B 4 0 495 684 ;
C 36 ; WX 500 ; N dollar ; B 30 -116 471 731 ;
C 37 ; WX 840 ; N percent ; B 39 -20 802 709 ;
C 38 ; WX 778 ; N ampersand ; B 43 -20 753 689 ;
C 39 ; WX 278 ; N quoteright ; B 45 446 233 709 ;
Open Source Used In Secure Workload 3.6.1.1 6130
Open Source Used In Secure Workload 3.6.1.1  6131
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn darkgrid parameters
axes.grid: True
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0

"$\text{Seaborn darkgrid parameters}\n\text{axes.grid: True}\n\text{axes.facecolor: EAEAF2}\n\text{axes.edgecolor: white}\n\text{axes.linewidth: 0}\n\text{grid.color: white}\n\text{xtick.major.size: 0}\n\text{ytick.major.size: 0}\n\text{xtick.minor.size: 0}\n\text{ytick.minor.size: 0}\n"
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_OS##QmB &Kc51,3EHDEKS\IEIGIJJ\KIDAADGGFGJ\MLIGE>3/494+,68,"(57,#---3:91-04/.-2#
Seaborn common parameters

- .15 = dark_gray
- .8 = light_gray

figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters
axes.grid: False
axes.facecolor: white
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C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for Computation and Visualization of Geometric Structures
(The Geometry Center)
University of Minnesota

email: qhull@qhull.org

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# Seaborn deep palette

```python
axes.prop_cycle: cycler('color', ['4C72B0', '55A868', 'C44E52', '8172B2', 'CCB974', '64B5CD'])
patch.facecolor: 4C72B0
```

StartFontMetrics 4.1


Comment Creation Date: Thu May 1 12:49:17 1997

Comment UniqueID 43068

Comment VMusage 43909 54934

FontName Times-Roman

FullName Times Roman

FamilyName Times

Weight Roman

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -168 -218 1000 898

UnderlinePosition -100

UnderlineThickness 50

Version 002.000


EncodingScheme AdobeStandardEncoding

CapHeight 662

XHeight 450

Ascender 683

Descender -217

StdHW 28

StdVW 84

StartCharMetrics 315

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C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 130 -9 238 676 ;
C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;
C 35 ; WX 500 ; N numbersign ; B 5 0 496 662 ;
C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;
C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;
C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;
C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;
C 40 ; WX 333 ; N parenleft ; B 48 -177 304 676 ;
C 41 ; WX 333 ; N parenright ; B 29 -177 285 676 ;
C 42 ; WX 500 ; N asterisk ; B 69 265 432 676 ;
C 43 ; WX 564 ; N plus ; B 30 0 534 506 ;
C 44 ; WX 250 ; N comma ; B 56 -141 195 102 ;
C 45 ; WX 333 ; N hyphen ; B 39 194 285 257 ;
C 46 ; WX 250 ; N period ; B 70 -11 181 100 ;
C 47 ; WX 278 ; N slash ; B -9 -14 287 676 ;
C 48 ; WX 500 ; N zero ; B 24 -14 476 676 ;
C 49 ; WX 500 ; N one ; B 111 0 394 676 ;
C 50 ; WX 500 ; N two ; B 30 0 475 676 ;
```
Open Source Used In Secure Workload 3.6.1.1  6152
Open Source Used In Secure Workload 3.6.1.1  6159
Open Source Used In Secure Workload 3.6.1.1 6167
KPX T r -35
KPX T racute -35
KPX T rcaron -35
KPX T rcommaaccent -35
KPX T semicolon -55
KPX T u -45
KPX T uacute -45
KPX T ucircumflex -45
KPX T udieresis -45
KPX T ugrave -45
KPX T uhungarumlaut -45
KPX T umacron -45
KPX T uogonek -45
KPX T uring -45
KPX T w -80
KPX T y -80
KPX T yacute -80
KPX T ydieresis -80
KPX Tcaron A -93
KPX Tcaron Aacute -93
KPX Tcaron Abreve -93
KPX Tcaron Acircumflex -93
KPX Tcaron Adieresis -93
KPX Tcaron Agrave -93
KPX Tcaron Amacron -93
KPX Tcaron Aogonek -93
KPX Tcaron Aring -93
KPX Tcaron Atilde -93
KPX Tcaron O -18
KPX Tcaron Oacute -18
KPX Tcaron Ocircumflex -18
KPX Tcaron Odieresis -18
KPX Tcaron Ograve -18
KPX Tcaron Ohungarumlaut -18
KPX Tcaron Omacron -18
KPX Tcaron Oslash -18
KPX Tcaron Otilde -18
KPX Tcaron a -80
KPX Tcaron aacute -80
KPX Tcaron abreve -80
KPX Tcaron acircumflex -80
KPX Tcaron adieresis -40
KPX Tcaron agrave -40
KPX Tcaron amacron -40
KPX Tcaron aogonek -80
KPX Tcaron aring -80
KPX Tcaron atilde -40
KPX Tcaron atilde -50
Open Source Used In Secure Workload 3.6.1.1 6182
 KPX Ydieresis udieresis -71
 KPX Ydieresis ugrave -71
 KPX Ydieresis uhungarumlaut -111
 KPX Ydieresis umacron -71
 KPX Ydieresis uogonek -111
 KPX Ydieresis uring -111
 KPX a v -20
 KPX a w -15
 KPX aacute v -20
 KPX aacute w -15
 KPX abreve v -20
 KPX abreve w -15
 KPX acircumflex v -20
 KPX acircumflex w -15
 KPX adieresis v -20
 KPX adieresis w -15
 KPX agrave v -20
 KPX agrave w -15
 KPX amacron v -20
 KPX amacron w -15
 KPX aogonek v -20
 KPX aogonek w -15
 KPX aring v -20
 KPX aring w -15
 KPX atilde v -20
 KPX atilde w -15
 KPX b period -40
 KPX b u -20
 KPX b uacute -20
 KPX b ucircumflex -20
 KPX b udieresis -20
 KPX b ugrave -20
 KPX b uhungarumlaut -20
 KPX b umacron -20
 KPX b uogonek -20
 KPX b uring -20
 KPX b v -15
 KPX c y -15
 KPX c yacute -15
 KPX c ydieresis -15
 KPX cacute y -15
 KPX cacute yacute -15
 KPX cacute ydieresis -15
 KPX ccaron y -15
 KPX ccaron yacute -15
 KPX ccaron ydieresis -15
 KPX ccedilla y -15
 KPX ccedilla yacute -15
Open Source Used In Secure Workload 3.6.1.1  6210
Open Source Used In Secure Workload 3.6.1.1 6242
Open Source Used in Secure Workload 3.6.1.1

RrDG@KG@L@G@K'L@G@L JBG@+Qt(\trG(hURrFG@L@G@M G@L
G@L@JpLG@+\trG(hURrHG@LG@L@L0
=q@G@Lp
=q@0G@+W
=ptr(hU
RrJG@KG@L@LG@LG@L Jj,G@+QtK(hURrLG@L G@LG@LG@L
=qJS@G@+\trM(hURrNG@LG@L@LG@Kp
=q@G@KJ\G@+p
\trG(hURrPG@LG@M G@KG@LJG@+\trQ(hURrRG@LG@MG@LG@M
JY@G@,\trS(hURrTG@M@G@M@G@L@L@LJU@G@+=
=ptrU(hURrVG@LG@LG@L G@L@JYSG@+\trW(hURrXG@LG@LG@L@G@L@JwUG@+
=ptrY(hURrZG@LG@LG@L@L@L@J5@G@+#
=ptr[hURrG@L@LG@L G@LG@L@L@L@L@L@L0
=ptr[hURrG@L G@LG@L
=ptr[hURr*G@L G@LG@L
=ptr[hURrLjG@LG@LG@L Jj.G@+QtrK(hURrLG@L G@LG@LG@L
=qJS@G@+\trM(hURrNG@LG@L@LG@Kp
=q@G@KJ\G@+p
\trG(hURrPG@LG@M G@KG@LJG@+\trQ(hURrRG@LG@MG@LG@M
JY@G@,\trS(hURrTG@M@G@M@G@L@L@LJU@G@+=
=ptrU(hURrVG@LG@LG@L G@L@JYSG@+\trW(hURrXG@LG@LG@L@G@L@JwUG@+
=ptrY(hURrZG@LG@LG@L@L@L@L@L@L0
=ptr[hURrG@L@LG@L G@LG@L@L@L@L@L@L0
=ptr[hURrG@L G@LG@L
=ptr[hURr*G@L G@LG@L
Open Source Used In Secure Workload 3.6.1.1  6253

=tr1(hURr2G@JG@JG@IG@I
=qJ#G@)
=p
tr3(hURr4G@JG@K G@JG@J
=qJDG@*(tr5(hURr6G@JG@K G@JG@J
=qJDG@)
tr7(hURr8G@JG@K G@JG@K G@JG@J
=qJDG@)
tr9(hURrG@JG@JG@J
=qJDG@)
trO(hURrPG@L G@M G@L G@L
=qJQG@+RtrQ(hURrRG@L G@L G@K G@L0
=qJbG@+333333trS(hURrTG@L G@L G@K
=qG@LJ@nBG@+GztrU(hURrVG@L G@M G@L G@LJG@G+P
=trW(hURrXG@L G@L G@L G@L
=qJ'dG@+4trZgtrY(hURrYG@L G@L G@L G@LJG@G+P
=qJbG@+B\(tr_(hURrKG@L G@K G@K G@I0
=qJhG@+P
tra(hURrPG@L G@M G@L G@L
=qG@LJ@G@H@IG@HG@HJRG@'}
=qtre(hURrPG@L G@M G@L G@L
=qG@LG@EFG@F
=qJbG@+F  
RrhG@EFG@F JG@%333333trF(hURrKG@L G@L G@L
=qG@EJ@G@%()trh(hURrTG@L G@L G@L G@M333333trG(hURrKG@L G@L G@L
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Open Source Used In Secure Workload 3.6.1.1 6256
Open Source Used In Secure Workload 3.6.1.1  6258
Open Source Used In Secure Workload 3.6.1.1  6261
Open Source Used In Secure Workload 3.6.1.1 6271
Open Source Used In Secure Workload 3.6.1.1

- qG@Ap
- qG@B J@G@"Qtr(hU
- RrG@B'zHG@BgzHG@A@G@AP
- qJpG@!QTr(hURrG@AG@BzHG@AG@A
- pJ&sG@!\tr(hURrG@A
- qG@BG@A'zHG@gG@A@G@AP
- =qG@A`G@A@G@AzHJG>@
- =p
- tr(hURrG@AG@A0
- =qG@B!333333tr(hURrG@AzHG@BP
- =qG@A3zHG@B0
- =qJG@"333333tr(hURrG@BG@CQG@B@CQJ
-G@=tr(hURrG@CG@DG@CG@DxQJG@Su\tr(hURrG@EG@FzHG@EG@FJpG@&Gztr(hURrG@FP
- =qG@FQG@E
- =qG@FzHJG@&
- =p
- tr(hURrG@EG@F0
- =qG@D
- =pG@EJ@cG@%\tr(hURrG@FG@G
- =qG@FG@GJ"G@\tr(hURrG@GzHG@IG@FG@HzHJ0!G@\zHtr(hURr
G@H G@HP
- =qG@GQG@G@J 3G@="p
- =tr(hURrG@GzHG@GG@FP
- =qG@GJ@G@tr
(hURrG@GzHG@Gp
- =qG@FG@F@JMG@&=p
- =tr(hURrG@FP
- =qG@F
- =qG@E"G@F
- =qJ@G@&
- =qtr(hU
RrG@G@GxQG@FP
- =qG@FJxG@&\Qtr(hURrG@Fp
- =qG@GQG@EzHG@FG@JG@&aGztr(hURrG@Fp
- =qG@G@G@F
- =qG@G@J0G@="p
- =tr(hU
RrG@G8QG@GgzHG@FG@GQJ W@\tr(hURrG@F
- =qG@FzHG@F0
- =qG@F0
- =qJpG@&333333tr(hURrG@EG@FXQG@EG@F0
- =qJrG@&333333tr(hURrG@FzHG@GG@F0
- =qG@FJ/G@&Qtr(hURrG@FG@FG@EG@FQJG@&\tr(hURrG@FQG@FG@EG@E@G@E@J"G@%=p
- =tr(hURrG@EG@FzHG@EGzHG@EJQG@%\tr(hURrG@E

Open Source Used In Secure Workload 3.6.1.1 6294
Open Source Used In Secure Workload 3.6.1.1 6298
Open Source Used In Secure Workload 3.6.1.1  6300
=pG@X;zHJG@8\)trE(hURrFG@XG@Y\(G@XzHG@YPjwG@9O\(trG(hURrHG@I@G@LxQG@IzHG@K
=qJG@Rtr(hURrJG@KG@L
=qG@JzHG@IJG@GztrK(hURrLG@J
=pG@KP
=qG@IgzHG@IQPoG@9
=ptrM(hURrNG@J@G@K`G@J
=qG@K
=qJx;G@RtrOhURrPG@J
=pG@KG@I
=qG@IhnG@9GztrQ(hURrRG@JzHG@K
=qG@IG@K8QJx,G@;8QtrS(hURrTG@JzHG@IJG@IJ0oG@9QtrU(hURrVG@JgzHG@KxQG@IQQG
@J0
=qJ0=G@:.0
=qtW(hURrXG@J
=qG@KzHG@J
=qG@JzHJ&G@:\)trY(hURrZG@JG@KQG@I`G@I
=qJG@9Rtr[e(hURrG@J@G@JxQG@H
=qG@IzHJG@9)tr[hURr*G@JKQG@KgzHG@J
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=qG@MxQG@L0
=qG@Mp
=qJzG@=p
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=RrF@M@G@NP
=qG@K`G@L@J`G@<Rtr(hURrV@G@L
=qG@MG@Ip
=qG@LQJg@<
=ptr(hURrJG@M@G@MgzHG@L
=qG@MzHJ(G@=\)trk(hURrI@M@G@Mp
=qG@Lp
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=ptr(hURrP@KG@LzHG@K
=qG@K
=qJG@:Rtn(hURrG@K.zGG@K
=qG@JxQG@JzHJPkG@;zHtrs(hURrG@JgzHG@Jp
=qG@G@HXQJXG@8W
=ptr(hURrV@IzHG@IP
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=qG@JJG@:tr(hURrG@J#
=pG@J@G@Gp
=qG@HzHJ8G@8\)tr(hURr~G@HzGG@I
=qG@H`G@IgzHZTG@9h\)tr(hURrG@IzHG@IzGG@HG@HzHJG@8\)tr(hURrG@HG@HQG@GQG@GJXG
@7Qtr(hURrG@FzHG@HzHG@F@G@HJdG@8tr(hURrG@H(I@G@G`zHG@G
=qJPG@7
=qtr(hURrG@G
=qG@HzHG@GQG@GQI0fG@7Qtr(hURrG@GQG@HG@G`zHG@G`J`G@7aGztr(hURrG@H
G@zG\tr(hUrR G@9h)G@:.G@9333333G@9zGJxG@) =qtr(hUrR G@:W =pG@:.333333G@99(G@: =pJG@\tr(hUrR G@9QG@::G@8G{G@8\JSG@/(G@:\tr(hUrR G@8=p =G@9G@:7(G@9J)G@/\tr(hUrR!G@9QG@9(G@@8 =pG@8\J@G@7(G@9Y@9s33333G@733333G@8RJ@G@/(G@\tr(hUrR!G@8# =pG@8G@7QG@7G(J G@\tr(hUrR RtR!G@85(G@8G@633333G@7JzG@\tr(hUrR!G@7(G@7)p =G@6(G@6JnG@/&\tr(hUrR !G@6 =pG@7zGG@7G@7J=p JG@\Ltr(hUrR!G@7QG@7QG@9G@7 =p G@7zGJ0+G@zGtr !(hUrR!G@7B(G@8G@6G@8JG@\tr(hUrR!G@8G{G@8\TzGG@7G@7GJG@'=p tr!(hUrR!G@7\G@7 =pG@7QG@7zHJVG@'=p tr!(hUrR!G@7GzG@7\G@7G@7JH9G@%(tr!(hUrR!G@8G@8GzG@7ffiffG@7JxG@\tr!(hUrR!G@7G@7G @6(G@7:G@7G@7QG@7J=Qtr!(hUrR!G@7J=p G@7LG@6QG@7333333G@7333333tr(hUrR!G@7333333G@7J=p G@6G@6\JVG@&\tr!(hUrR!G@6QRG@6G@4\G@5xQJ(1G@%u\tr!(hUrR !G@4\G@43zHJyG@#/zHtr!(hUrR!*G@3G@4=p =G@3p =G@333333JG@#/(tr!(hUrR$!G@4GzG@5 =pG@3G@4 =pJG@5Gtr%!(hUrR!G@5zGG@5\G@4u(G@4)JxG@/$tr!(hUrR!(G@4G@5G@4YG@4 =qJG@$ =qtr!(hUrR!*G@4zGG@4zGG@4TzGG@4G{J(yG@$Qtr+(hUrR!G@4(G@533333G@4s33333G@5)J5G@ %\tr!(hUrR!*G@5ffiffG@5ffiffG@4\G@5QRJ8G@%
Qtr!(hUrR0!G@5G@5RG@333333G@4 =p J7G@$ =p tr1!(hUrR2!G@3QG@4 =qG@3(G@4O(JG@5Ltr3!(hU RtR!G@5QG@5G@4(G@4QJG@4\G@4xQJG@4u\tr5!(hUrR6!G@4 =p G@4s333333G@3QG@3GzJ G@#GzGt7!(hUrR8G@4G@4G@3YG@4p =qJ8G@Sp =qtr9!(hUrR!G@4h)G@4G@4G@4TzGJG@5QRtr!(hUrR!G@4G@5ffiffG@4(G@40 =qJG@5333333tr!(hUrR!G@4G@5G@3G@5QJ6G@%zGtr!(hUrR!(G@5G@7G@5G@6)p =JG@&zG\tr\!(hUrR!G@6G@7G@5)G@6BvJ G@&B\trC!(hUrR!G@6G@8G@6s333333G@7p =JG\G@7e\(hUrRF!G@7W =pG@7QG@7G@7JxG@%(trG(hUrR!G@7zGG@8G@6G@7W =pJG@'W =ptr!(hUrR!G@79G@7)G@6 =qG@7=p
Open Source Used In Secure Workload 3.6.1.1 6326
Open Source Used In Secure Workload 3.6.1.1  6330
Open Source Used In Secure Workload 3.6.1.1 6354
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 0 123 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 0 123 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 0 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex -20 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis -10 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave -30 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 0 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 0 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 0 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 0 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 0 0 ;
CC igrave 2 ; PCC e 0 0 ; PCC grave -40 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC circumflex -40 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -40 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 0 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 0 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 0 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 0 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 0 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 0 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 0 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 0 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex -20 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis -20 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave -30 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 0 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 0 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 0 0 ;
EndComposites
EndFontMetrics

# Seaborn talk context
figure.figsize: 10.4, 7.15
axes.labelsize: 14.3
axes.titlesize: 15.6
xtick.labelsize: 13
ytick.labelsize: 13
legend.fontsize: 13

grid.linewidth: 1.3
lines.linewidth: 2.275
patch.linewidth: 0.39
lines.markersize: 9.1
lines.markeredgewidth: 0

xtick.major.width: 1.3
KPX Abreve u -30
KPX Abreve uacute -30
KPX Abreve ucircumflex -30
KPX Abreve udieresis -30
KPX Abreve ugrave -30
KPX Abreve uhungarumlaut -30
KPX Abreve umacron -30
KPX Abreve uogonek -30
KPX Abreve uing -30
KPX Abreve v -40
KPX Abreve w -40
KPX Abreve y -40
KPX Abreve yacute -40
KPX Abreve ydieresis -40
KPX Acircumflex C -30
KPX Acircumflex Cacute -30
KPX Acircumflex Ccaron -30
KPX Acircumflex Ccedilla -30
KPX Acircumflex G -30
KPX Acircumflex Gbreve -30
KPX Acircumflex Gcommaaccent -30
KPX Acircumflex O -30
KPX Acircumflex Oacute -30
KPX Acircumflex Ocircumflex -30
KPX Acircumflex Odieresis -30
KPX Acircumflex Ograve -30
KPX Acircumflex Ohungarumlaut -30
KPX Acircumflex Omacron -30
KPX Acircumflex Oslash -30
KPX Acircumflex Otilde -30
KPX Acircumflex Q -30
KPX Acircumflex T -120
KPX Acircumflex Tcaron -120
KPX Acircumflex Tcommaaccent -120
KPX Acircumflex U -50
KPX Acircumflex Uacute -50
KPX Acircumflex Ucircumflex -50
KPX Acircumflex Udieresis -50
KPX Acircumflex Ugrave -50
KPX Acircumflex Uhungarumlaut -50
KPX Acircumflex Umacron -50
KPX Acircumflex Uogonek -50
KPX Acircumflex Uing -50
KPX Acircumflex V -70
KPX Acircumflex W -50
KPX Acircumflex Y -100
KPX Acircumflex Yacute -100
KPX Acircumflex Ydieresis -100
KPX Omicron Adieresis -20
KPX Omicron Agrave -20
KPX Omicron Amacron -20
KPX Omicron Aogonek -20
KPX Omicron Aring -20
KPX Omicron Atilde -20
KPX Omicron T -40
KPX Omicron Tcaron -40
KPX Omicron Tcommaaccent -40
KPX Omicron V -50
KPX Omicron W -30
KPX Omicron X -60
KPX Omicron Y -70
KPX Omicron Yacute -70
KPX Omicron Ydieresis -70
KPX Omicron comma -40
KPX Omicron period -40
KPX Oslash A -20
KPX Oslash Aacute -20
KPX Oslash Abreve -20
KPX Oslash Acircumflex -20
KPX Oslash Adieresis -20
KPX Oslash Agrave -20
KPX Oslash Amacron -20
KPX Oslash Aogonek -20
KPX Oslash Aring -20
KPX Oslash Atilde -20
KPX Oslash T -40
KPX Oslash Tcaron -40
KPX Oslash Tcommaaccent -40
KPX Oslash V -50
KPX Oslash W -30
KPX Oslash X -60
KPX Oslash Y -70
KPX Oslash Yacute -70
KPX Oslash Ydieresis -70
KPX Oslash comma -40
KPX Oslash period -40
KPX Otilde A -20
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KPX Otilde Agrave -20
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KPX Otilde Atilde -20
Open Source Used In Secure Workload 3.6.1.1  6396
KPX Y Atilde -110
KPX Y O -85
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KPX Y Odieresis -85
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KPX Y emacron -70
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KPX Y hyphen -140
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KPX Y iogonek -20
KPX Y o -140
KPX Y oacute -140
KPX Y oacut -140
KPX Y ocircumflex -140
KPX Y odieresis -140
KPX Y ograve -140
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KPX Y omacron -140
KPX Y oslash -140
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KPX Y period -140
KPX Y semicolon -60
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KPX Y uacute -110
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KPX h ydieresis -30
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KPX k ecaron -20
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KPX rcommaaccent amacron -10
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KPX rcommaaccent comma -50
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KPX rcommaaccent icircumflex 15
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KPX rcommaaccent k 15
KPX rcommaaccent kcommaaccent 15
KPX rcommaaccent l 15
KPX rcommaaccent lacute 15
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KPX rcommaaccent lslash 15
KPX rcommaaccent m 25
KPX rcommaaccent n 25
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KPX rcommaaccent ncaron 25
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KPX rcommaaccent ntilde 25
KPX rcommaaccent p 30
KPX rcommaaccent period -50
KPX rcommaaccent semicolon 30
KPX rcommaaccent t 40
Open Source Used In Secure Workload 3.6.1.1 6421
# Set all colors to grayscale
# Note: strings of float values are interpreted by matplotlib as gray values.

lines.color: black
patch.facecolor: gray
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
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Comment UniqueID 5000785
FontName CMMI10
EncodingScheme FontSpecific
FullName CMMI10
FamilyName Computer Modern
Weight Medium
ItalicAngle -14.04
IsFixedPitch false
Version 1.00A
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -32 -250 1048 750
CapHeight 683.333
XHeight 430.556
Ascender 694.444
Descender -194.444
Comment FontID CMMI
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX math italic
Comment Space 0 0 0
Comment Quad 1000
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C 1 ; WX 833.333 ; N Delta ; B 49 0 787 716;
C 2 ; WX 762.774 ; N Theta ; B 50 -22 739 705;
C 3 ; WX 694.444 ; N Lambda ; B 35 0 666 716;
C 4 ; WX 742.361 ; N Xi ; B 53 0 777 677;
C 5 ; WX 831.25 ; N Pi ; B 39 0 880 680;
C 6 ; WX 779.861 ; N Sigma ; B 59 0 807 683;
C 7 ; WX 583.333 ; N Upsilon ; B 29 0 700 705;
C 8 ; WX 666.667 ; N Phi ; B 24 0 642 683;
C 9 ; WX 612.221 ; N Psi ; B 28 0 692 683;
C 10 ; WX 772.396 ; N Omega ; B 80 0 785 705;
C 11 ; WX 639.7 ; N alpha ; B 41 -11 601 442;
C 12 ; WX 565.625 ; N beta ; B 25 -194 590 705;
C 13 ; WX 517.73 ; N gamma ; B 18 -215 542 442;
C 14 ; WX 444.444 ; N delta ; B 41 -12 452 705;
C 15 ; WX 405.902 ; N epsilon1 ; B 47 -11 376 431;
C 16 ; WX 437.5 ; N zeta ; B 47 -205 474 697;
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C 18 ; WX 469.442 ; N theta ; B 42 -11 455 705;
C 19 ; WX 353.935 ; N iota ; B 56 -11 324 442;
Comment The following are bogus kern pairs for TeX positioning of accents

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KPX Gamma comma -111.111
KPX Gamma period -111.111
KPX Gamma tie 83.333
KPX Delta tie 166.667
KPX Theta tie 83.333
KPX Lambda tie 166.667
KPX Xi tie 83.333
KPX Pi slash -55.556
KPX Pi comma -55.556
KPX Pi period -55.556
KPX Pi tie 55.556
KPX Sigma tie 83.333
KPX Upsilon slash -55.556
KPX Upsilon comma -111.111
KPX Upsilon period -111.111
KPX Upsilon tie 55.556
KPX Phi tie 83.333
KPX Psi slash -55.556
KPX Psi comma -55.556
KPX Psi period -55.556
KPX Psi tie 55.556
KPX Omega tie 83.333
KPX alpha tie 27.778
KPX beta tie 83.333
KPX delta comma -55.556
KPX delta period -55.556
KPX delta tie 55.556
KPX epsilon1 tie 55.556
KPX zeta tie 83.333
KPX eta tie 55.556
KPX theta tie 83.333
KPX iota tie 55.556
KPX nu tie 27.778
KPX nu comma -55.556
KPX nu period -55.556
KPX nu tie 27.778
KPX xi tie 111.111
KPX rho tie 83.333
KPX sigma comma -55.556
KPX sigma period -55.556
KPX tau comma -55.556
KPX tau period -55.556
KPX tau tie 27.778
KPX upsilon tie 27.778
KPX phi tie 83.333
KPX chi tie 55.556
KPX psi tie 111.111
KPX epsilon tie 83.333
KPX theta1 tie 83.333
KPX rho1 tie 83.333
KPX sigma1 tie 83.333
KPX slash Delta -55.556
KPX slash A -55.556
KPX slash M -55.556
KPX slash N -55.556
KPX slash Y 55.556
KPX slash Z -55.556
KPX partialdiff tie 83.333
KPX A tie 138.889
KPX B tie 83.333
KPX C slash -27.778
KPX C comma -55.556
KPX C period -55.556
KPX C tie 83.333
KPX D tie 55.556
KPX E tie 83.333
KPX F slash -55.556
KPX F comma -111.111
KPX F period -111.111
KPX F tie 83.333
KPX G tie 83.333
KPX H slash -55.556
KPX H comma -55.556
KPX H period -55.556
KPX H tie 55.556
KPX I tie 111.111
KPX J slash -55.556
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Street, Forest Hills, NY 11375, USA - Phone: (718) 575-1816.
StartFontMetrics 2.0
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date: Fri Jan 17 13:15:45 1992
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Comment VMusage 34143 41035
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FullName Utopia Italic
FamilyName Utopia
Weight Regular
ItalicAngle -13
IsFixedPitch false
FontBBox -201 -250 1170 890
UnderlinePosition -100
UnderlineThickness 50
Version 001.002
Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.Utopia is a registered
trademark of Adobe Systems Incorporated.
EncodingScheme AdobeStandardEncoding
CapHeight 692
XHeight 502
Ascender 742
Descender -242
StartCharMetrics 228
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C 33 ; WX 240 ; N exclam ; B 34 -12 290 707 ;
C 34 ; WX 402 ; N quotedbl ; B 171 469 454 742 ;
C 35 ; WX 530 ; N number ; B 54 0 585 668 ;
C 36 ; WX 530 ; N dollar ; B 31 -109 551 743 ;
C 37 ; WX 826 ; N percent ; B 98 -25 795 702 ;
Open Source Used In Secure Workload 3.6.1.1  6444
KPX L A 30

KPX M y -18
KPX M u -24
KPX M quotedblright 6
KPX M quotedblright 15
KPX M o -25
KPX M n -12
KPX M j -18
KPX M i -12
KPX M e -20
KPX M d -10
KPX M c -20
KPX M a -6

KPX N y -18
KPX N u -24
KPX N quotedblright 10
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KPX N o -25
KPX N i -12
KPX N e -20
KPX N a -22

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KPX O y 12
KPX O w -10
KPX O v -10
KPX O u -6
KPX O t -6
KPX O s -6
KPX O r -6
KPX O quotedblright -40
KPX O quotedblright -40
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KPX O period -20
KPX O p -6
KPX O n -6
KPX O m -6
KPX O l -20
KPX O k -10
KPX O j -6
KPX O h -10
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KPX O d 6
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KPX O c 5
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KPX O a 5
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KPX O X -30
KPX O W -40
KPX O V -60
KPX O T -48
KPX O A -18

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KPX P e -24
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KPX Q U -35
KPX Q T -36
KPX Q A -18

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# CREATOR: The GIMP's PNM Filter Version 1.0
Module creating PyQt4 form dialogs/layouts to edit various type of parameters

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Open Source Used In Secure Workload 3.6.1.1 6472
KPX P comma -129
KPX P A -129

KPX R y -37
KPX R Y -55
KPX R W -55
KPX R V -74
KPX R T -55

KPX T y -92
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KPX T u -111
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CC Aring 2 ; PCC A 0 0 ; PCC ring 235 210 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 255 228 ;
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Year, Agriculture, Architecture, Art and Performance, Biology, Business, Communications and Journalism, Computer Science, Education, Engineering, Foreign Languages, Health Professions, Math and Statistics, Physical Sciences, Psychology, Public Administration, Social Sciences and History

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C -1 ; WX 540 ; N oacute ; B 65 -8 572 706 ;
C -1 ; WX 620 ; N mu ; B 53 -221 686 484 ;
C -1 ; WX 600 ; N minus ; B 91 259 595 335 ;
C -1 ; WX 540 ; N eth ; B 65 -8 642 725 ;
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StartKernPairs 85

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EndKernData
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CC Otilde 2 ; PCC O 0 0 ; PCC tilde 190 177 ;
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CC aring 2 ; PCC a 0 0 ; PCC ring 140 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 60 0 ;
Open Source Used In Secure Workload 3.6.1.1 6560
Open Source Used In Secure Workload 3.6.1.1  6563
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KPX N u -30
KPX N o -30
KPX N i -24
KPX N e -30
KPX N a -30

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KPX O s -6
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KPX O m -5
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KPX O i -5
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EndKernData
EndFontMetrics
# Seaborn common parameters
#.15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn whitegrid parameters
axes.grid: True
axes.facecolor: white
axes.edgecolor: .8
axes.linewidth: 1
grid.color: .8
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0

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<property name="decorated">True</property>
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<property name="skip_pager_hint">False</property>
<property name="type_hint">GDK_WINDOW_TYPE_HINT_DIALOG</property>
<property name="gravity">GDK_GRAVITY_NORTH_WEST</property>
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Line style

Line properties

Line properties
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This is the sample data needed for some of matplotlib's examples and docs. See matplotlib.cbook.get_sample_data for more info.

# Seaborn common parameters
#.15 = dark_gray
#.8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters
axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 6
ytick.major.size: 6
xtick.minor.size: 3
ytick.minor.size: 3
P6
# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
# Seaborn muted palette
axes.prop_cycle: cycler('color', ['4878CF', '6ACC65', 'D65F5F', 'B47CC7', 'C4AD66', '77BEDB'])
patch.facecolor: 4878CF
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==========

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Copyright FAQ
=============  
1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig.
substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

   Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

   Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

   This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.
Open Source Used In Secure Workload 3.6.1.1  6609
KPX W a -66
KPX W A -64

KPX Y v 15
KPX Y u -38
KPX Y q -55
KPX Y period -40
KPX Y p -31
KPX Y o -57
KPX Y i -37
KPX Y hyphen 11
KPX Y e -58
KPX Y comma -34
KPX Y a -54
KPX Y A -53

KPX f f 29

KPX r q 9
KPX r period -64
KPX r o 8
KPX r n 31
KPX r m 31
KPX r hyphen 70
KPX r h -21
KPX r g -4
KPX r f 33
KPX r e 7
KPX r d 7
KPX r comma -58
KPX r c 7
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 200 177 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 130 177 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 130 177 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 140 177 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 180 177 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 177 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 220 177 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 150 177 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 150 177 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 160 177 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 20 177 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -40 177 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -40 177 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -20 177 ;
# Seaborn bright palette
axes.prop_cycle: cycler('color', ['003FFF', '03ED3A', 'E8000B', '8A2BE2', 'FFC400', '00D7FF'])
patch.facecolor: 003FFF
Open Source Used In Secure Workload 3.6.1.1  6617
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EndKernData
StartComposites 58

StartComposites

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<td>CC scaron</td>
<td>PCC s 0 0 ; PCC caron 83 0 ;</td>
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<td>CC Ccedilla</td>
<td>PCC C 0 0 ; PCC cedilla 194 0 ;</td>
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<td>CC cedilla</td>
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<td>CC Yacute</td>
<td>PCC Y 0 0 ; PCC acute 139 202 ;</td>
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<td>CC yacute</td>
<td>PCC y 0 0 ; PCC acute 83 0 ;</td>
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<td>CC Ydieresis</td>
<td>PCC Y 0 0 ; PCC dieresis 139 202 ;</td>
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<tr>
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<td>PCC U 0 0 ; PCC grave 194 202 ;</td>
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<td>CC Ecute</td>
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CC Ograve 2; PCC O 0 0; PCC grave 222 202;
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CC Atilde 2; PCC A 0 0; PCC tilde 167 202;
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CC Ntilde 2; PCC N 0 0; PCC tilde 194 202;
CC ntilde 2; PCC n 0 0; PCC tilde 111 0;
CC Otilde 2; PCC O 0 0; PCC tilde 222 202;
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Comment UniqueID 35028
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FullName New Century Schoolbook Italic
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Weight Medium
ItalicAngle -16
IsFixedPitch false
FontBBox -166 -250 994 958
UnderlinePosition -100
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Version 001.006
EncodingScheme AdobeStandardEncoding
CapHeight 722
XHeight 466
Ascender 737
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StartCharMetrics 228
C 32; WX 278; N space; B 0 0 0 0;
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C 34; WX 400; N quotedbl; B 127 463 363 737;
C 35; WX 556; N numbersign; B 28 0 528 690;
C 36; WX 556; N dollar; B 4 -142 536 808;
C 37; WX 833; N percent; B 43 -15 790 705;
Open Source Used In Secure Workload 3.6.1.1 6631
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KPX B period -50
KPX B comma -50

KPX C period -50
KPX C comma -50

KPX D period -50
KPX D comma -50
KPX D Y -18
KPX D W -18
KPX D V -18

KPX F r -55
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Open Source Used In Secure Workload 3.6.1.1 6644
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KPX dcr w -15
KPX dcr y -15
KPX dcr yacute -15
KPX dcr ydieresis -15
KPX e c -10
KPX e d -20
KPX e v -15
KPX e w -15
KPX e x -15
KPX e y -15
KPX e yacute -15
KPX e ydieresis -15
KPX eacute c -10
KPX eacute d -20
KPX eacute v -15
KPX eacute w -15
KPX eacute x -15
KPX eacute y -15
KPX eacute yacute -15
KPX eacute ydieresis -15
KPX ecaron c -10
KPX ecaron d -20
KPX ecaron v -15
KPX ecaron w -15
KPX ecaron x -15
KPX ecaron y -15
KPX ecaron yacute -15
KPX ecaron ydieresis -15
KPX ecircumflex c -10
KPX ecircumflex d -20
KPX ecircumflex v -15
KPX ecircumflex w -15
KPX ecircumflex x -15
KPX ecircumflex y -15
KPX ecircumflex yacute -15
KPX ecircumflex ydieresis -15
KPX edieresis c -10
KPX edieresis d -20
KPX edieresis v -15
KPX edieresis w -15
KPX edieresis x -15
KPX edieresis y -15
KPX edieresis yacute -15
KPX edieresis ydieresis -15
KPX edotaccent c -10
KPX edotaccent d -20
KPX omicron x -30
KPX omicron y -20
KPX omicron yacute -20
KPX omicron ydieresis -20
KPX oslash v -20
KPX oslash w -15
KPX oslash x -30
KPX oslash y -20
KPX oslash yacute -20
KPX oslash ydieresis -20
KPX otilde v -20
KPX otilde w -15
KPX otilde x -30
KPX otilde y -20
KPX otilde yacute -20
KPX otilde ydieresis -20
KPX p y -15
KPX p yacute -15
KPX p ydieresis -15
KPX period quotedblright -120
KPX period quoteright -120
KPX period space -40
KPX quotedblright space -80
KPX quoteleft quoteleft -46
KPX quoteright d -80
KPX quoteright deroat -80
KPX quoteright l -20
KPX quoteright lacute -20
KPX quoteright lemaaccent -20
KPX quoteright lslash -20
KPX quoteright lacute -20
KPX quoteright racute -40
KPX quoteright rearm -40
KPX quoteright rcommaaccent -40
KPX quoteright sacute -60
KPX quoteright scaron -60
KPX quoteright scedilla -60
KPX quoteright scommaaccent -60
KPX quoteright space -80
KPX quoteright v -20
KPX r c -20
KPX r cacute -20
KPX r ccaron -20
KPX r ccedilla -20
KPX r comma -60
KPX r d -20
Open Source Used In Secure Workload 3.6.1.1 6708
Open Source Used In Secure Workload 3.6.1.1 6709
KPX s w 0

KPX space quoteleft 0
KPX space quotedblleft 0
KPX space Y -70
KPX space W -70
KPX space V -70
KPX space T 0
KPX space A -37

KPX v period -37
KPX v o -15
KPX v e -15
KPX v comma -37
KPX v a 0

KPX w period -37
KPX w o -15
KPX w h 0
KPX w e -10
KPX w comma -37
KPX w a -10

KPX x e -10

KPX y period -37
KPX y o 0
KPX y e 0
KPX y comma -37
KPX y a 0

KPX z o 0
KPX z e 0
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 172 207 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 187 207 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 167 207 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 172 207 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 157 192 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 167 207 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 172 207 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 187 207 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 187 207 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 172 207 ;
Open Source Used In Secure Workload 3.6.1.1 6713
<xml version="1.0" />
<resource>
<object class="wxFrame" name="MainFrame">
<title>embedding_in_wx3</title>
<object class="wxPanel" name="MainPanel">
<orient>wxVERTICAL</orient>
<object class="sizeritem">
<object class="wxStaticText">
<label>Check out this whizz-bang stuff!</label>
<style>wxALIGN_CENTRE</style>
</object>
<option>0</option>
<flag>wxALL|wxEXPAND</flag>
<border>5</border>
</object>
<object class="sizeritem">
<object class="wxBoxSizer">
<orient>wxHORIZONTAL</orient>
<object class="sizeritem">
<object class="wxButton" name="whiz_button">
<label>whiz</label>
</object>
<option>0</option>
<flag>wxALL|wxEXPAND</flag>
<border>2</border>
</object>
<object class="sizeritem">
<object class="wxButton" name="bang_button">
<label>bang</label>
</object>
<option>0</option>
<flag>wxALL|wxEXPAND</flag>
<border>2</border>
</object>
<object class="sizeritem">
<object class="wxStaticText">
<label>bang count:</label>
<style>wxALIGN_RIGHT</style>
</object>
<option>1</option>
<flag>wxALL|wxEXPAND</flag>
<border>2</border>
</object>
<object class="sizeritem">
<object class="wxTextCtrl" name="bang_count">
<value>0</value>
</object>
</object>
</object>
</resource>
Open Source Used In Secure Workload 3.6.1.1
C -1 ; WX 600 ; N Aogonek ; B -9 -199 632 562 ;
C -1 ; WX 600 ; N Aring ; B -9 0 632 801 ;
C -1 ; WX 600 ; N Otilde ; B 74 -18 669 759 ;
C -1 ; WX 600 ; N zdotaccent ; B 81 0 614 638 ;
C -1 ; WX 600 ; N Ecaron ; B 25 0 670 790 ;
C -1 ; WX 600 ; N Iogonek ; B 77 -199 643 562 ;
C -1 ; WX 600 ; N kcommaaccent ; B 33 -250 643 626 ;
C -1 ; WX 600 ; N minus ; B 114 203 596 313 ;
C -1 ; WX 600 ; N Icircumflex ; B 77 0 643 780 ;
C -1 ; WX 600 ; N ncaron ; B 18 0 633 667 ;
C -1 ; WX 600 ; N tcommaaccent ; B 118 -250 567 562 ;
C -1 ; WX 600 ; N logicalnot ; B 135 103 617 413 ;
C -1 ; WX 600 ; N odieresis ; B 71 -15 622 638 ;
C -1 ; WX 600 ; N udieresis ; B 70 -15 595 638 ;
C -1 ; WX 600 ; N notequal ; B 30 -47 626 563 ;
C -1 ; WX 600 ; N gcommaaccent ; B 40 -146 674 714 ;
C -1 ; WX 600 ; N eth ; B 93 -27 661 626 ;
C -1 ; WX 600 ; N zcaron ; B 81 0 643 667 ;
C -1 ; WX 600 ; N ncommaaccent ; B 18 -250 615 454 ;
C -1 ; WX 600 ; N onesuperior ; B 212 230 514 616 ;
C -1 ; WX 600 ; N imacron ; B 77 0 575 585 ;
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics
EndFontMetrics
# Seaborn poster context
figure.figsize: 12.8, 8.8
axes.labelsize: 17.6
axes.titlesize: 19.2
xtick.labelsize: 16
ytick.labelsize: 16
legend.fontsize: 16

grid.linewidth: 1.6
lines.linewidth: 2.8
patch.linewidth: 0.48
lines.markersize: 11.2
lines.markeredgewidth: 0

xtick.major.width: 1.6
ytick.major.width: 1.6
xtick.minor.width: 0.8
ytick.minor.width: 0.8

xtick.major.pad: 11.2
ytick.major.pad: 11.2
StartFontMetrics 2.0

Comment Creation Date: Mon Mar 4 13:46:34 1991
KPX J period -15
KPX J a -20
KPX J A -30

KPX K y -20
KPX K u -15
KPX K o -45
KPX K e -40
KPX K O -30

KPX L y -23
KPX L quoteright -30
KPX L quotedblright -30
KPX L Y -80
KPX L W -55
KPX L V -85
KPX L T -46

KPX O period -30
KPX O comma -30
KPX O Y -30
KPX O X -30
KPX O W -20
KPX O V -45
KPX O T -15
KPX O A -60

KPX P period -200
KPX P o -20
KPX P e -20
KPX P comma -220
KPX P a -20
KPX P A -100

KPX Q comma 20

KPX R W 25
KPX R V -10
KPX R U 25
KPX R T 40
KPX R O 25

KPX S comma 20

KPX T y -10
KPX T w -55
KPX T u -46
KPX T semicolon -29
KPX r c -7

KPX s period 20
KPX s comma 20

KPX space quotel -50
KPX space quotedbl -50
KPX space Y -60
KPX space W -25
KPX space V -80
KPX space T -25
KPX space A -20

KPX v period -90
KPX v o -20
KPX v e -20
KPX v comma -90
KPX v a -30

KPX w period -90
KPX w o -30
KPX w e -20
KPX w comma -90
KPX w a -30

KPX x e -20

KPX y period -100
KPX y o -30
KPX y e -20
KPX y comma -100
KPX y c -35
KPX y a -30
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 160 170 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 100 170 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 120 170 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 170 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 190 135 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 130 170 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 50 170 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex -10 170 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 10 170 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 50 170 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -45 170 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -130 170 ;
Open Source Used in Secure Workload 3.6.1.1  6751
KPX Y colon -55
KPX Y a -74
KPX Y A -55

KPX f quotright 37
KPX f f -18

KPX one one -37

KPX quotleft quotleft -55

KPX quotright t -18
KPX quotright space -55
KPX quotright s -55
KPX quotright quotright -55

KPX r quotright 55
KPX r period -55
KPX r hyphen -18
KPX r comma -55

KPX v period -111
KPX v comma -111

KPX w period -92
KPX w comma -92

KPX y period -92
KPX y comma -92
EndKernPairs
EndKernData
StartComposites 58
  CC Aacute 2 ; PCC A 0 0 ; PCC acute 223 224 ;
  CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 211 224 ;
  CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 223 224 ;
  CC Agrave 2 ; PCC A 0 0 ; PCC grave 215 224 ;
  CC Aring 2 ; PCC A 0 0 ; PCC ring 223 224 ;
  CC Atilde 2 ; PCC A 0 0 ; PCC tilde 223 224 ;
  CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 195 0 ;
  CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 224 ;
  CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 224 ;
  CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 224 ;
  CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 224 ;
  CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 224 ;
  CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 224 ;
  CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 224 ;
  CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 224 ;
  CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 250 224 ;
Open Source Used In Secure Workload 3.6.1.1 6755

#Author: Cameron Davidson-Pilon, replicated styles from FiveThirtyEight.com
# See https://www.dataorigami.net/blogs/fivethirtyeight-mpl

lines.linewidth: 4
lines.solid_capstyle: butt

legend.fancybox: true

axes.prop_cycle: cycler('color', ['30a2da', 'fc4f30', 'e5ae38', '6d904f', '8b8b8b'])
axes.facecolor: f0f0f0
axes.labelsize: large
axes.axisbelow: true
axes.grid: true
axes.edgecolor: f0f0f0
axes.linewidth: 3.0
axes.titlesize: x-large

patch.edgecolor: f0f0f0
patch.linewidth: 0.5

svg.fonttype: path

grid.linestyle: -
grid.linewidth: 1.0
grid.color: cbcbcb

xtick.major.size: 0
xtick.minor.size: 0
ytick.major.size: 0
ytick.minor.size: 0

font.size:14.0

savefig.edgecolor: f0f0f0
savefig.facecolor: f0f0f0

figure.subplot.left: 0.08
figure.subplot.right: 0.95
figure.subplot.bottom: 0.07
figure.facecolor: f0f0f0

#Author: Cameron Davidson-Pilon, original styles from Bayesian Methods for Hackers
# https://github.com/CamDavidsonPilon/Probabilistic-Programming-and-Bayesian-Methods-for-Hackers/

lines.linewidth : 2.0

patch.linewidth: 0.5
patch.facecolor: blue
patch.edgecolor: eeeee
patch.antiialiased: True

text.hinting_factor : 8
This licence covers two font packs (known as BaKoMa Fonts Colelction, which is available at `CTAN:fonts/cm/ps-type1/bakoma/`):

1) BaKoMa-CM (1.1/12-Nov-94)
   Computer Modern Fonts in PostScript Type 1 and TrueType font formats.

2) BaKoMa-AMS (1.2/19-Jan-95)
   AMS TeX fonts in PostScript Type 1 and TrueType font formats.

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ormalyshev@mail.ihep.ru

P6
# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
"
""""""" 
""

! !

! ""##!

!"$'(&$'&'
=
#

>&&&(+(.-"('*(*(# #

!"#"++++..).54)-->(("&$
MQ,"#9XE[vCAGMOV[W]_YTRR]ksxm[LCEBC>30/0*(4+*)$! $" \\
#(2CCJJEUGM"cXRQXSKd\<Z[Kn2]I;v-q1 \\
*70Irbd@2" \\
LI3?* \\
'(R#q>jBCAIS[YY\VULMVdopcQDCDJIG<74//2.1/""""""""$"15*-8AKHJIKQZ'a[OFT][9FdzSqNLe8gxyJ/y; \\
/<RsB]u)yF7( \\
O!c!38*0cxQV<=GTZUWZZSIFNWeiYIA>EIKIB;433930253*%#$ !#%+6@EIKJQVZZXXOF<H[P]d)b.H \\
9b?oMwCS \\
&27Cql+-_WT[B. \\
%V V'=B8.0?Ya[s^E \\
wl=JWZWWW[SNIEIW\V1=>GJLG?79==829;6;$"!!")**+:DDHKMV\_[]][\_wV 9BpHtF1X&6nI+ \\
$/?OT\iK6kYJAtR:+ \\
%9h2Y \\
<-99>KW_bn[2vZR:DHVYTTQWRPC=IPOKCEDEKMK>:<B=468:74)"%!"! (-631<HGPPW\ggfdidb\[0] \\
Bjn.X+*Edh\_ihQ2 \\
S-6?Rdrt)\%\nNPgC(& \\
%3DRgBm!+4C\p^SVFS,kLMRUUOTUVNCEFMNQXXTSQJ:8AA<96469770-(#% ! \\
1>A>CKX^defbgdifaY^O6[Ndyy4qH57]u^QS_d[]#0AP_oXqs+(,v&N6%
Open Source Used In Secure Workload 3.6.1.1 6797
Open Source Used In Secure Workload 3.6.1.1 6816
Open Source Used In Secure Workload 3.6.1.1  

C 199 ; WX 320 ; N dotacent ; B 68 536 259 730 ;
C 200 ; WX 500 ; N dieresis ; B 68 560 441 698 ;
C 202 ; WX 340 ; N ring ; B 68 552 275 755 ;
C 203 ; WX 360 ; N cedilla ; B 68 -213 284 0 ;
C 205 ; WX 440 ; N hungarumlaut ; B 68 554 365 741 ;
C 206 ; WX 320 ; N ogonek ; B 68 -163 246 0 ;
C 207 ; WX 500 ; N caron ; B 68 541 430 717 ;
C 208 ; WX 1000 ; N emdash ; B -25 212 1025 318 ;
C 225 ; WX 1140 ; N AE ; B -34 0 1149 681 ;
C 227 ; WX 400 ; N ordfeminine ; B 27 383 396 698 ;
C 232 ; WX 640 ; N Lslash ; B 9 0 668 681 ;
C 233 ; WX 800 ; N Oslash ; B 35 -110 771 781 ;
C 234 ; WX 1220 ; N OE ; B 35 -17 1219 698 ;
C 235 ; WX 400 ; N ordmasculine ; B 17 383 383 698 ;
C 241 ; WX 880 ; N ae ; B 28 -8 852 515 ;
C 245 ; WX 360 ; N dotlessi ; B 22 0 335 502 ;
C 248 ; WX 340 ; N slash ; B 9 0 322 725 ;
C 249 ; WX 620 ; N oslash ; B 31 -40 586 551 ;
C 250 ; WX 940 ; N oe ; B 31 -8 908 515 ;
C 251 ; WX 660 ; N germandbls ; B -61 -91 644 699 ;
C -1 ; WX 580 ; N ecircumflex ; B 31 -8 548 731 ;
C -1 ; WX 580 ; N edieresis ; B 31 -8 548 698 ;
C -1 ; WX 580 ; N aacute ; B 28 -8 588 731 ;
C -1 ; WX 740 ; N registered ; B 23 -17 723 698 ;
C -1 ; WX 360 ; N icircumflex ; B -2 0 360 731 ;
C -1 ; WX 660 ; N ucircumflex ; B 22 -8 653 731 ;
C -1 ; WX 720 ; N Aacute ; B -34 0 763 910 ;
C -1 ; WX 360 ; Ngrave ; B 22 0 335 730 ;
C -1 ; WX 400 ; N Icircumflex ; B 18 0 391 910 ;
C -1 ; WX 580 ; N ccedilla ; B 31 -213 550 515 ;
C -1 ; WX 580 ; N adieresis ; B 28 -8 588 698 ;
C -1 ; WX 720 ; N Ecircumflex ; B 20 0 724 910 ;
C -1 ; WX 520 ; N scaron ; B 22 -8 492 717 ;
C -1 ; WX 640 ; N thiorn ; B 22 -212 611 725 ;
C -1 ; WX 980 ; N trademark ; B 42 277 982 681 ;
C -1 ; WX 580 ; N egrave ; B 31 -8 548 730 ;
C -1 ; WX 396 ; N threesuperior ; B 5 269 391 698 ;
C -1 ; WX 560 ; N zcaron ; B 22 0 547 717 ;
C -1 ; WX 580 ; N atilde ; B 28 -8 588 691 ;
C -1 ; WX 580 ; Naring ; B 28 -8 588 755 ;
C -1 ; WX 620 ; N ocircumflex ; B 31 -8 585 731 ;
C -1 ; WX 720 ; N Edieresis ; B 20 0 724 877 ;
C -1 ; WX 990 ; N threethirds ; B 15 0 967 692 ;
C -1 ; WX 620 ; N ydieresis ; B 6 -221 613 698 ;
C -1 ; WX 620 ; N yacute ; B 6 -221 613 731 ;
C -1 ; WX 620 ; N odiere ; B 31 -8 585 698 ;
C -1 ; WX 740 ; N copyright ; B 23 -17 723 698 ;
C -1 ; WX 600 ; N brokenbar ; B 243 -175 362 675 ;
EndCharMetrics
StartKernData
StartKernPairs 90

KPX A y -1
KPX A w -9
KPX A v -8
KPX A Y -52
KPX A W -20
KPX A V -68
KPX A T -40

KPX F period -132
KPX F comma -130
KPX F A -59

KPX L y 19
KPX L Y -35
KPX L W -41
KPX L V -50
KPX L T -4

KPX P period -128
KPX P comma -129
KPX P A -46

KPX R y -8
KPX R Y -20
KPX R W -24
KPX R V -29
KPX R T -4

KPX T semicolon 5
KPX T s -10
KPX T r 27
KPX T period -122
KPX T o -28
KPX T i 27
KPX T hyphen -10
KPX T e -29
KPX T comma -122
KPX T colon 7
KPX T c -29
KPX T a -24
KPX T A -42
KPX r o -9
KPX r n 20
KPX r m 20
KPX r hyphen -10
KPX r h -23
KPX r g -9
KPX r f 20
KPX r e -10
KPX r d -10
KPX r comma -101
KPX r c -9
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 160 179 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 110 179 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 110 179 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 179 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 190 179 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 179 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 160 179 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 110 179 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 110 179 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 160 179 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 179 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -50 179 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -50 179 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 179 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 179 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 200 179 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 150 179 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 150 179 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 200 179 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 160 179 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 80 179 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 170 179 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 120 179 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 120 179 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 170 179 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 90 0 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 40 0 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 90 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 40 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 40 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 90 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 100 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 30 0 ;
KPX F comma -98
KPX F A -35

KPX L y 62
KPX L Y -5
KPX L W -15
KPX L V -19
KPX L T -26

KPX P period -105
KPX P comma -98
KPX P A -31

KPX R y 27
KPX R Y 4
KPX R W -4
KPX R V -8
KPX R T -3

KPX T y 56
KPX T w 69
KPX T u 42
KPX T semicolon 31
KPX T s -1
KPX T r 41
KPX T period -107
KPX T o -5
KPX T i 42
KPX T hyphen -20
KPX T e -10
KPX T comma -100
KPX T colon 26
KPX T c -8
KPX T a -8
KPX T A -42

KPX V y 17
KPX V u -1
KPX V semicolon -22
KPX V r 2
KPX V period -115
KPX V o -50
KPX V i 32
KPX V hyphen -20
KPX V e -50
KPX V comma -137
KPX V colon -28
KPX V a -50
Open Source Used In Secure Workload 3.6.1.1  6836
KPX Q period -25  
KPX Q comma -25

KPX S period -37  
KPX S comma -37

KPX T semicolon -37  
KPX T period -125  
KPX T o -55  
KPX T hyphen -100  
KPX T e -55  
KPX T comma -125  
KPX T colon -37  
KPX T a -55  
KPX T O 10  
KPX T A -18

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- High: Highest price of the stock during the day
- Low: Lowest price of the stock during the day
- Close: Closing price of the stock
- Volume: Number of shares traded
- Adj. Close: Adjusted closing price
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 9-Jul-03,27.56,27.70,27.25,27.47,62300700,27.32
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```bash
#!/usr/bin/env fontforge

i=1
while ( i<$argc )
    Open($argv[i])
    Generate($argv[i]:r + ".ttf")
    i = i+1
```
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-----------------------------------------------------------

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24 May 2010

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Name: cloud-init
Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

This package was debianized by Soren Hansen <soren@ubuntu.com> on Thu, 04 Sep 2008 12:49:15 +0200 as ec2-init. It was later renamed to cloud-utils by Scott Moser <scott.moser@canonical.com>
Open Source Used In Secure Workload 3.6.1.1  7055

Upstream Author: Scott Moser <smoser@canonical.com>
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1.494 perl-filter 1.49 3.el7

1.495 curl 7.29.0-59.el7_9.1
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c-ares http://daniel.haxx.se/projects/c-ares/license.html

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zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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fbopenssl

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

1.496 yum-langpacks 0.4.2

1.496.1 Available under license:

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1.502 nvml 1.5.1 2.1.el7

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### 1.503 slf4j-log4j 1.7.25

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### 1.504 xz 5.2.2 1.el7
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1.505 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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Gocheck - A rich testing framework for Go

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Protocol Buffers for Go with Gadgets

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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1.517 glibc 2.16

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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End

1.527 jetty-security 9.2.24.v20180105

1.528 rdoc 6.2.1

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  * /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/StaticLoggerBinder.java
  * /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/SimpleLoggerFactory.java
  * /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/StaticMarkerBinder.java
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  jar/org/slf4j/impl/SimpleLogger.java

1.531 expat 2.1.0-12.el7
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1.532 faraday-middleware 1.0.0

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1.533 ascii-graph 1.2.0

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bzip2/libbz2 version 1.0.6 of 6 September 2010

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**1.535 python-hvac 0.2.17-1.tet**

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1.537 json 2.0.4

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# Changes

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad Sherif (ahmadsheir).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibility to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is
however a GPL compatible license according to the Free Software Foundation.
I changed these mentions to be consistent with the Ruby license setting in
the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of
  `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing
  `space_before` accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io>
  and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre
  Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with
  -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make
  serialize :some_attribute, `JSON::GenericObject`
  work in Rails active models for convenient `SomeModel#some_attribute.foo.bar`
  access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and
  `JSON::GenericObject`. It should not be possible to create additions unless
  explicitly requested by setting the create_additions argument to true or
  using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to
  be automatically deserialised, this has to be explicitly enabled by
  setting
  `JSON::GenericObject.json_creatable = true`
  as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155
  provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enbo@gmail.com>), should fix https://github.com/flori/json/issues#issue/119.
* Fix https://github.com/flori/json/issues#issue/117

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load("")` return nil as well to make mysql text columns (default to `""`) work better for serialization.
## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize method. Just use:
  serialize :value, JSON
* Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in:
  https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemsspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method definitions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of json_pure if extentiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
* Applied 993f261ccb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be comaptable with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Triger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State#[]` method which returns an attribute's value in order to increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible
to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of
strings in object names/keys.

## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE,
and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion
functions are used to convert from all supported encodings. ASCII-8BIT
encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure
work in environments that don't provide iconv.
* Applied patch by okkez_ in order to fix Ruby Bug #1768:
* Finally got around to avoid the rather paranoid escaping of `?/` characters
in the generator's output. The parsers aren't affected by this change.
Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could
cause catastrophic backtracking in one of the parser's regular expressions
in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue.
Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this
problem.
* This release also uses a less strict ruby version requirement for the
creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't
play well with different ruby versions other than the one the gem was built
with. This release is just to bump the version number in order to skip the
native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler
  <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports rage <= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a 'JSON.parse!' method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the 'max_nesting' feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by \ as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object '{ ... }' or array '][ ... ]' in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (['	\v\n]), and
there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases generate and `pretty_generate` of unparse and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/)-characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1156127175_1619133220.89/0/flori-json-v2-0-4-0-g09fabeb-tar-gz/flori-json-09fabeb/CHANGES.md
No license file was found, but licenses were detected in source scan.

Internet Engineering Task Force (IETF) T. Bray, Ed.
Request for Comments: 7159 Google, Inc.
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The JavaScript Object Notation (JSON) Data Interchange Format

Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.
This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7159.

RFC 7159  JSON  March 2014

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JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.
The terms "object" and "array" come from the conventions of JavaScript.

JSON's design goals were for it to be minimal, portable, textual, and a subset of JavaScript.

1.1. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON

This document updates [RFC4627], which describes JSON and registers the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of the ECMAScript specification [ECMA-262], Section 15.12. JSON is also described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an
array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

JSON-text = ws value ws

These are the six structural characters:

- begin-array  = ws %x5B ws ; [ left square bracket
- begin-object = ws %x7B ws ; { left curly bracket
- end-array    = ws %x5D ws ; ] right square bracket
- end-object   = ws %x7D ws ; } right curly bracket
- name-separator = ws %x3A ws ; : colon
- value-separator = ws %x2C ws ; , comma

Insignificant whitespace is allowed before or after any of the six structural characters.

ws = *(  
   %x20 / ; Space
   %x09 / ; Horizontal tab
   %x0A / ; Line feed or New line
   %x0D ) ; Carriage return

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

value = false / null / true / object / array / number / string
false = %x66.61.6c.73.65 ; false
null = %x6e.75.6c.6c ; null
true = %x74.72.75.65 ; true

4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

object = begin-object [ member *( value-separator member ) ]
   end-object

member = string name-separator value

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.
array = begin-array [ value *( value-separator value ) ] end-array

There is no requirement that the values in an array be of the same type.

6. Numbers

The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.

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An exponent part begins with the letter E in upper or lower case, which may be followed by a plus or minus sign. The E and optional sign are followed by one or more digits.

Numeric values that cannot be represented in the grammar below (such as Infinity and NaN) are not permitted.

number = [ minus ] int [ frac ] [ exp ]

decimal-point = %x2E ; .

digit1-9 = %x31-39 ; 1-9

e = %x65 / %x45 ; e E

exp = e [ minus / plus ] 1*DIGIT

frac = decimal-point 1*DIGIT

int = zero / ( digit1-9 *DIGIT )

minus = %x2D ; -

plus = %x2B ; +
This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range \([-2^{53}+1, 2^{53}-1]\) are interoperable in the sense that implementations will agree exactly on their numeric values.

---

7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A though F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as
Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\".

To escape an extended character that is not in the Basic Multilingual Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

```
string = quotation-mark *char quotation-mark
char = unescaped / escape ( escape = %x5C ; \  
quotation-mark = %x22 ; "  
unescaped = %x20-21 / %x23-5B / %x5D-10FFFF
```

8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations.
that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.

8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, "\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.
9. Parsers

A JSON parser transforms a JSON text into another representation. A JSON parser MUST accept all texts that conform to the JSON grammar. A JSON parser MAY accept non-JSON forms or extensions.

An implementation may set limits on the size of texts that it accepts. An implementation may set limits on the maximum depth of nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:

JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.
12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.
13. Examples

This is a JSON object:

```
{
  "Image": {
    "Width": 800,
    "Height": 600,
    "Title": "View from 15th Floor",
    "Thumbnail": {
      "Url": "http://www.example.com/image/481989943",
      "Height": 125,
      "Width": 100
    },
    "Animated": false,
    "IDs": [116, 943, 234, 38793]
  }
}
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
  {
    "precision": "zip",
    "Latitude": 37.7668,
    "Longitude": -122.3959,
    "Address": "",
    "City": "SAN FRANCISCO",
    "State": "CA",
  }
]
Here are three small JSON texts containing only values:

"Hello world!"

42

ture

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References


Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.

- Added an "Introduction to This Revision" section.

- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.

- Added language about duplicate object member names, member ordering, and interoperability.

- Clarified the absence of a requirement that values in an array be of the same JSON type.

- Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".

- Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.

- Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.

- Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".

- Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.

- Updated and tidied the "IANA Considerations" section.

- Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.
o Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

o Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.

o Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

o Changed "100" to 100 and added a boolean field, both in the first example.

o Added examples of JSON texts with simple values, neither objects nor arrays.

o Added a "Contributors" section crediting Douglas Crockford.

o Added a reference to RFC 4627.

o Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

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package simulator
import;
"github.com/vmware/govmomi/object"
"github.com/vmware/govmomi/vim25/methods"
"github.com/vmware/govmomi/vim25/mo"
"github.com/vmware/govmomi/vim25/soap"
"github.com/vmware/govmomi/vim25/types"

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
LicenseKey: "00000000000000000000000000000000",
EditionKey: "eval",
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{
    {
        Key: "feature",
        Value: types.KeyValue{
            Key: "serialuri:2",
            Value: "Remote virtual Serial Port Concentrator",
        },
    },
    {
        Key: "feature",
        Value: types.KeyValue{
            Key: "dvs",
            Value: "vSphere Distributed Switch",
        },
    },
}
}

// LicenseManager struct
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

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BSON library for Go

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mgo - MongoDB driver for Go

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Version: v1.3.1
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Dependency: github.com/eapache/go-resiliency
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Revision: bb955e01b93464ac19dc29eb16586c90ded69a98c
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Revision: 44cc805cf13205b55f69e14bc69867d1ac92f98
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Version: v0.0.7
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Dependency: github.com/elastic/go-ucfg
Version: v0.5.1
Revision: 0ba28e36add27704e6b49a7ed8557989a8f4a635
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Version: v1.5.0
Revision: 570b54cabe6b8eb0bc2dfce68d964677d63b5260
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Dependency: github.com/fsouza/go-dockerclient
Version: beats-branch
Revision: ba365ff5e4281fe828654e64ca599a1defd063497
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Dependency: github.com/ghodss/yaml
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Dependency: github.com/go-sql-driver/mysql
Revision: 9dee4ca50b83acdf57a35fb9e6fb4be640afa2f3
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Dependency: github.com/hashicorp/go-cleanhttp
Revision: 3573b8b52aa7b37b9358d966a898fe387f62437
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Revision: 941b50ebc6efdf4c41c8e4537a5f68a4e686b24
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Revision: b402f3114ec730d8bddb074a6c137309f561aa78
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Version: v1.7.1
Revision: 35aad584952c3e7020db7b839f6b102de6271f89
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Included for the use of the `fix_strcasecmp.c` module which works
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Version 2, June 1991

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<one line to give the program's name and a brief idea of what it does.>
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

5.
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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</L1>

<P>
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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1.557 rdoc 5.0.0

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1.559 pango 1.42.4-4.el7

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1.561 patch 2.7.1-12.el7_7

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

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

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

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the
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1.568 kerberos 1.10.3-65.el6

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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
@code{src/lib/gssapi}, including the following files:

@smallexample
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.c
lib/gssapi/spnego/spnego_spnego.c
@end smallexample
and the initial implementation of incremental propagation, including
the following new or changed files:

@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi', including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_acct_svc.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dup_status.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_relay_info.c
lib/gssapi/mechglue/g_relay_name.c
lib/gssapi/mechglue/g_relay_oid_set.c
lib/gssapi/mechglue/g_set_name.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gss_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.589 libvmtools 11.0.5-3.el7_9.3

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 */
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/*
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Header File
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

---------------------------------------------------------------------
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/
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```

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1.600 gosqlite 1.10.0

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1.617 bzip2 1.0.6

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*
 minibz2
 libbz2.dll test program.
 by Yoshioka Tsuneo (tsuneo@rr.iiij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]

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1.618 j2objc-annotations 1.1

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1.624 slf4j-simple 1.7.12

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1.626 libx11 1.6.7 2.el7

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1.627 aircompressor 0.8

1.628 python-pymongo 3.6.0-1tet.el7

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gunicorn.logging_config

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gunicorn.reloader

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doc/sitemap_gen.py

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util/unlink.py

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backport frop python3 Lib/test/support.py

gunicorn/selectors.py

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1.643 cvs 1.11.23 16.el6

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1.650 cpp 4.4.7-23.el6

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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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table of data to be supplied by an application program that uses
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called `this License`). Each licensee is addressed as `you`.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The `Library`, below, refers to any such software library or work which has been distributed under these terms. A `work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term `modification`.)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item The modified work must itself be a software library.

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

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

1. Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

```
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@end smallexample
```

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

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tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
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code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
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1.658 faraday-net_http 1.0.1

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1.659 microcode-ctl 2.1-73.11.el7_9

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 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its ChannelPipeline.
 *
 * <h3>Sub-types</h3>
 *
 * @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 *
 * <ul>
 * <li>@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 *
 * Alternatively, the following adapter classes are provided for your convenience:
 *
 * <ul>
 * <li>@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 *
 * For more information, please refer to the documentation of each subtype.
 *
 * <h3>The context object</h3>
 *
 * A @link ChannelHandler} is provided with a @link ChannelHandlerContext} object. A @link ChannelHandler} is supposed to interact with the
 * @link ChannelPipeline} it belongs to via a context object. Using the
 * context object, the @link ChannelHandler} can pass events upstream or
 * downstream, modify the pipeline dynamically, or store the information
 * (using @link AttributeKey}s) which is specific to the handler.
 *
 * <h3>State management</h3>
 *
 * A @link ChannelHandler} often needs to store some stateful information.
 * The simplest and recommended approach is to use member variables:
* public interface Message {
  // your methods here
* }

* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
  
  * private boolean loggedIn;
  *
  * {
  *   @Override
  *   public void channelRead0(@link ChannelHandlerContext} ctx, Message message) {
  *     @link Channel} ch = e.getChannel();
  *     if (message instanceof LoginMessage) {
  *       authenticate((LoginMessage) message);
  *       loggedIn = true;
  *     } else (message instanceof GetDataMessage) {
  *
  *       if (loggedIn) {
  *         ch.write(fetchSecret((GetDataMessage) message));
  *       } else {
  *         fail();
  *       }
  *     }
  *   }
  *   *
  *   ...
  *   }
  * </pre>

  * Because the handler instance has a state variable which is dedicated to
  * one connection, you have to create a new handler instance for each new
  * channel to avoid a race condition where a unauthenticated client can get
  * the confidential information:

  * // Create a new handler instance per channel.
  * // See {@link ChannelInitializer#initChannel(Channel)}.
  * public class DataServerInitializer extends ChannelInitializer<Channel> {
  *   {
  *     @Override
  *     public void initChannel(@link Channel} channel) {
  *       channel.pipeline().addLast("handler", new DataServerHandler());
  *     }
  *   }
  * </pre>

  * <h4>Using AttributeKeys</h4>

  * Although it's recommended to use member variables to store the state of a
  * handler, for some reason you might not want to create many handler instances.
  * In such a case, you can use AttributeKeys which is provided by
  * {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*    // your methods here
* }
* 
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*    private final {@link AttributeKey}&lt;@link Boolean&gt; auth =
*        { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* 
*    {@code @Override}
*    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*        Attribute&lt;@link Boolean&gt; attr = ctx.attr(auth);
*        Channel ch = ctx.channel();
*        if (message instanceof LoginMessage) {
*            authenticate((LoginMessage) o);
*            attr.set(true);
*        } else (message instanceof GetDataMessage) {
*            if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                ch.write(fetchSecret((GetDataMessage) o));
*            } else {
*                fail();
*            }
*        }
*    }
* ...
* }
* </pre>

* Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;@link Channel&gt; {
*    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
* 
*    {@code @Override}
*    public void initChannel({@link Channel} channel) {
*        channel.pipeline().addLast("handler", <b>SHARED</b>);
*    }
* }
* </pre>

* <h4>The {@code @Sharable} annotation</h4>

* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.

* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

* This annotation is provided for documentation purpose, just like the JCIP annotations.

* Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

```
*/
```

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* `/opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-jar/io/netty/channel/ChannelHandler.java`

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* `/opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-jar/io/netty/channel/ChannelProgressiveFuture.java`
* `/opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-jar/io/netty/channel/AddressedEnvelope.java`
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* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4.1.26-final-sources-1-
  jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4.1.26-final-sources-1-
  jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4.1.26-final-sources-1-
  jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4.1.26-final-sources-1-
  jar/io/netty/channel/pool/ChannelPool.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4.1.26-final-sources-1-
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  jar/io/netty/channel/pool/AbstractChannelPoolMap.java
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* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1- jar/io/netty/channel/ChannelOption.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1- jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1- jar/io/netty/channel/SucceededChannelFuture.java
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* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1- jar/io/netty/channel/socket/oio/OioDatagramChannel.java
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* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1- jar/io/netty/channel/ThreadPerChannelEventLoop.java
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* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-jar/io/netty/channel/socket/DatagramChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1078478275_1597306949.27/0/netty-transport-4-1-26-final-sources-1-jar/io/netty/channel/embedded/package-info.java

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 */
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the { @code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/ws_local/PERMITS_SQL/1070948410_1594787931.62/0/netty-transport-native-epoll-4-1-25-final-sources-jar/io/netty/channel/epoll/Native.java

**1.666 execjs 2.8.1**

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Protocol Buffers for Go with Gadgets

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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d) Verify that the user has already received a copy of these
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which the executable runs, unless that component itself accompanies
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1.670 busybox 1.31.1-r17

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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RFC1832:  XDR: External Data REpresentation
Standard RFC1833:  Binding Protocols for ONC RPC Version 2
RFC2078:  Generic Security Service Application Program
Interface, Version 2 RFC2203: RPCSEC_GSS Protocol
Specification RFC2695: Authentication Mechanisms for ONC RPC

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Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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specified materials from the same place.

e) Verify that the user has already received a copy of these
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1.685 python-setuptools 38.4.0

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1.686 quota 4.01 17.el7

1.687 java-xmlbuilder 1.1

1.688 deep-merge 1.2.1
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1.689 perl-pathtools 3.40 5.el7
1.690 vflow 0.7.4

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Kibaale Children's Centre

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

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

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

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

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

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

*donate*

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

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

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

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

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

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa
Sending money:*iccf-donations*

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

USA: The methods mentioned below can be used.
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Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
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Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

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

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

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  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
  under the name "stichting ICCF Holland", Lisse
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  Swift code: RABO NL 2U
  under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
Some of the attributes covered by attUnquotString and attQuotString:
- architecture
- category_tag
- control_directory
- copyright
- create_date
- description
- directory
- file_permissions
- install_source
- install_type
- location
- machine_type
- mod_date
- number
- os_name
- os_release
- os_version
- pose_as_os_name
- pose_as_os_release
- readme
- revision
- share_link
- title
- vendor_tag

These regions are defined in attempt to do syntax checking for some
of the attributes.
Define the default highlighting.

For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
  let did_psf_syntax_inits = 1
  command -nargs=+ HiLink hi link <args>
else
  command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment

deblem HiLink
endif
* Long descriptions and copyrights confuse the syntax highlighting, so
* force vim to backup at least 100 lines before the top visible line
* looking for a sync location.

let b:current_syntax = "psf"

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  jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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  jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/tree/analysis/BasicValue.java
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  jar/org/objectweb/asm/tree/MethodInsnNode.java
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  jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/util/CheckMethodAdapter.java
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  jar/org/objectweb/asm/signature/SignatureReader.java
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  jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/xml/SAXClassAdapter.java
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* /opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/package-info.java
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1.714 animal-sniffer-annotation 1.14

1.715 python-slip 0.4.0 4.el7

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Name (printed):
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</p>
1.717 pcre 8.39

1.717.1 Available under license:

PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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

Written by: Philip Hazel
Email local part: ph10
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PCRE JUST-IN-TIME COMPILATION SUPPORT

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

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STACK-LESS JUST-IN-TIME COMPILER

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Written by: Zoltan Herczeg
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1.718 mesa 11.2.2 2.20160614.el7
1.718.1 Available under license:

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

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

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

Okay, a few more questions:

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

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

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

Thanks again,

~tom

==

Fedora Project

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

Hi Tom,

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

Cheers,
Jorge

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

Jorge,

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

The license says:

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

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

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

OR

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

*****

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

Thanks in advance,
Tom Callaway
Fedora Legal

==
Fedora Project

Some parts of Mesa are copyrighted under the GNU LGPL. See the Mesa/docs/COPYRIGHT file for details.

The following is the standard GNU copyright file.

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

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Version 2, June 1991

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

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

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  o Memory framework
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Bradley Baetz, <bradley.baetz@optusnet.com.au> :
  o MISC checker redesign
  o Scheduler framework extension to support child process handling.
  o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> : 
  o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> : 
  o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> : 
  o Fixed shadowed declaration reported by -Wshadow.
  o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> : 
  o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> : 
  o Extended VRRP framework to support floating priority.

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1.740 jackson-databind 2.8.4

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# Jackson JSON processor

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

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1.741 jline-style 3.9.0

1.742 bzip2 1.0.8-r1

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Julian Seward, jseward@acm.org
bzip2/libbzzip2 version 1.0.8 of 13 July 2019

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1.743 parquet-protobuf 1.8.3
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1.744 junixsocket-native-common 2.3.2

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1.745 libunistring 0.9.3 9.el7

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an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
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operating system on which the executable runs, unless that component
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
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END OF TERMS AND CONDITIONS

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)*/
*  nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*  *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*  *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*  *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*  *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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single nxt200x frontend driver.

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1.756 nettle 2.7.1 8.el7

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 *
 * PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
 */

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1.757 libpcap 1.7.2

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1.758 jetty-client 9.4.20.v20190813

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

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

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

Apache

The following artifacts are ASL2 licensed.

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

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

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.759 sysstat 10.1.5 17.el7

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1.763 libevent 1.4.13 4.el6

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 */
#!/bin/sh

# Common stub for a few missing GNU programs while installing.

scriptversion=2003-09-02.23

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# Originally by Francois Pinard <pinard@iro.umontreal.ca>, 1996.

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# the same distribution terms that you use for the rest of that program.

if test $# -eq 0; then
  echo 1>&2 "Try \$0 --help' for more information"
  exit 1
fi

# generated automatically by aclocal 1.10.1 -*- Autoconf -*-.

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m4_ifndef([AC_AUTOCONF_VERSION],
  [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])])dnl
m4_if(AC_AUTOCONF_VERSION, [2.63].
[m4_warning([this file was generated for autoconf 2.63.
You have another version of autoconf. It may work, but is not guaranteed to.
If you have problems, you may need to regenerate the build system entirely.
To do so, use the procedure documented by the package, typically 'autoreconf.']))

# libtool.m4 - Configure libtool for the host system. -*Autoconf*- 

# serial 52 AC_PROG_LIBTOOL

# AC_PROVIDE_IFELSE(MACRO-NAME, IF-PROVIDED, IF-NOT-PROVIDED)
# ------------------------------------------------------------------------
# If this macro is not defined by Autoconf, define it here.
m4_ifdef([AC_PROVIDE_IFELSE],
 [],
 [m4_define([AC_PROVIDE_IFELSE],
 [m4_ifdef([AC_PROVIDE_$1],
 [$2], [$3])])])

# AC_PROG_LIBTOOL
# ----------------
AC_DEFUN([AC_PROG_LIBTOOL],
[AC_REQUIRE([_AC_PROG_LIBTOOL])dnl
dnl If AC_PROG_CXX has already been expanded, run AC_LIBTOOL_CXX
dnl immediately, otherwise, hook it in at the end of AC_PROG_CXX.
AC_PROVIDE_IFELSE([AC_PROG_CXX],
 [AC_LIBTOOL_CXX],
 [define([AC_PROG_CXX], defn([AC_PROG_CXX])[AC_LIBTOOL_CXX ])])
dnl And a similar setup for Fortran 77 support
AC_PROVIDE_IFELSE([AC_PROG_F77],
 [AC_LIBTOOL_F77],
 [define([AC_PROG_F77], defn([AC_PROG_F77])[AC_LIBTOOL_F77 ])])

dnl Quote A][M_PROG_GCJ so that aclocal doesn't bring it in needlessly.
dnl If either AC_PROG_GCJ or A][M_PROG_GCJ have already been expanded, run
dnl AC_LIBTOOL_GCJ immediately, otherwise, hook it in at the end of both.
AC_PROVIDE_IFELSE([AC_PROG_GCJ],
 [AC_LIBTOOL_GCJ],
 [AC_PROVIDE_IFELSE(A][M_PROG_GCJ],
 [AC_LIBTOOL_GCJ],
 [AC_PROVIDE_IFELSE([LT.AC_PROG_GCJ],
 [AC_LIBTOOL_GCJ],
 [ifdef([AC_PROG_GCJ],
 [define([AC_PROG_GCJ], defn([AC_PROG_GCJ])[AC_LIBTOOL_GCJ]]))
ifdef([A][M_PROG_GCJ],
[define([A][M_PROG_GCJ] defn([A][M_PROG_GCJ]) [AC_LIBTOOL_GCJ]))
ifdef([LT_AC_PROG_GCJ],
[define([LT_AC_PROG_GCJ],
defn([LT_AC_PROG_GCJ]) [AC_LIBTOOL_GCJ]))))
]# AC_PROG_LIBTOOL

# AC_PROG_LIBTOOL
# ----------------
AC_DEFUN([ AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_LIBTOOL_SETUP]) dnl
AC_BEFORE([S0],[AC_LIBTOOL_CXX]) dnl
AC_BEFORE([S0],[AC_LIBTOOL_F77]) dnl
AC_BEFORE([S0],[AC_LIBTOOL_GCJ]) dnl

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL="$\$(SHELL) \$\{(top_builddir)/libtool\\"
AC_SUBST(LIBTOOL) dnl

# Prevent multiple expansion
define([AC_PROG_LIBTOOL], [])
]# AC_PROG_LIBTOOL

# AC_LIBTOOL_SETUP
# ----------------
AC_DEFUN([ AC_LIBTOOL_SETUP],
[AC_PREREQ(2.50)] dnl
AC_REQUIRE([AC_ENABLE_SHARED]) dnl
AC_REQUIRE([AC_ENABLE_STATIC]) dnl
AC_REQUIRE([AC_ENABLE_FAST_INSTALL]) dnl
AC_REQUIRE([AC_CANONICAL_HOST]) dnl
AC_REQUIRE([AC_CANONICAL_BUILD]) dnl
AC_REQUIRE([AC_PROG_CC]) dnl
AC_REQUIRE([AC_PROG_LD]) dnl
AC_REQUIRE([AC_PROG_LD_RELOAD_FLAG]) dnl
AC_REQUIRE([AC_PROG_NM]) dnl
AC_REQUIRE([AC_PROG_LN_S]) dnl
AC_REQUIRE([AC_DEPLIBS_CHECK_METHOD]) dnl

# Autoconf 2.13's AC_OBJEXT and AC_EXEEXT macros only works for C compilers!
AC_REQUIRE([AC_OBJEXT]) dnl
AC_REQUIRE([AC_EXEEXT]) dnl

dnl
AC_LIBTOOL_SYS_MAX_CMD_LEN
AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
AC_LIBTOOL_OBJDIR

ACQUIRE([_LT_AC_SYS_COMPILER])dnl
_LT_AC_PROG_ECHO_BACKSLASH

case $host_os in
aix3*)
  # AIX sometimes has problems with the GCC collect2 program. For some
  # reason, if we set the COLLECT_NAMES environment variable, the problems
  # vanish in a puff of smoke.
  if test "X${COLLECT_NAMES+set}" != Xset; then
    COLLECT_NAMES=
    export COLLECT_NAMES
  fi
  ;;
esac

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e 1s/^X//'
[sed_quote_subst='s/\(["'\'\\\]\)/\\\1/g']

# Same as above, but do not quote variable references.
[double_quote_subst='s/\(["'\'\\\]\)/\\\1/g']

# Sed substitution to delay expansion of an escaped shell variable in a
# double_quote_subst'ed string.
delay_variable_subst='s/\\\\\\$/\\\\$/g'

# Sed substitution to avoid accidental globbing in evaled expressions
no_glob_subst='s/\*/*/g'

# Constants:
rm="rm -f"

# Global variables:
default_ofile=libtool
can_build_shared=yes

# All known linkers require a `.a` archive for static linking (except MSVC,
# which needs `.lib`).
libext=a
ltmain="$ac_aux_dir/ltmain.sh"
ofile="$default_ofile"
with_gnu_ld="$lt_cv_prog_gnu_ld"
AC_CHECK_TOOL(AR, ar, false)
AC_CHECK_TOOL(RANLIB, ranlib, :)
AC_CHECK_TOOL(STRIP, strip, :)

old_CC="$CC"
old_CFLAGS="$CFLAGS"

# Set sane defaults for various variables
test -z "AR" && AR=ar
test -z "$AR_FLAGS" && AR_FLAGS=cru
test -z "$AS" && AS=as
test -z "$CC" && CC=cc
test -z "$LTCC" && LTCC=$CC
test -z "$LTCCFLAGS" && LTCCFLAGS=$CFLAGS
test -z "$DLLTOOL" && DLLTOOL=dlltool

test -z "$LD" && LD=ld
test -z "$LN_S" && LN_S="ln -s"

test -z "$SNM" && SNM=nm

test -z "$SED" && SED=sed

test -z "$OBJDUMP" && OBJDUMP=objdump

test -z "$RANLIB" && RANLIB=

test -z "$STRIP" && STRIP=

test -z "$ac_objext" && ac_objext=o

# Determine commands to create old-style static archives.
old_archive_cmds='$AR $AR_FLAGS $oldlib$oldobjs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=

if test -n "$RANLIB"; then
case $host_os in
  openbsd*)
    old_postinstall_cmds="$old_postinstall_cmds~\$RANLIB -t \$oldlib"
    *
  *)
    old_postinstall_cmds="$old_postinstall_cmds~\$RANLIB \$oldlib"
    *
esac
old_archive_cmds="$old_archive_cmds~\$RANLIB \$oldlib"
fi

_LT_CC_BASENAME([$compiler])

# Only perform the check for file, if the check method requires it
if test "$file_magic_cmd" = "$MAGIC_CMD"; then

AC_PATH_MAGIC
fi
;;
esac

_LT_REQUIRED_DARWIN_CHECKS

AC_PROVIDE_IFELSE([AC_LIBTOOL_DLOPEN], enable_dlopen=yes, enable_dlopen=no)
AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
enable_win32_dll=yes, enable_win32_dll=no)

AC_ARG_ENABLE([libtool-lock],
    [AC_HELP_STRING([--disable-libtool-lock],
    [avoid locking (might break parallel builds)]))])
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

AC_ARG_WITH([pic],
    [AC_HELP_STRING([--with-pic],
    [try to use only PIC/non-PIC objects @<:@default=use both@:>@]
    [pic_mode="$withval"],
    [pic_mode=default])]
test -z "$pic_mode" && pic_mode=default

# Use C for the default configuration in the libtool script
tagname=
AC_LIBTOOL_LANG_C_CONFIG
_LT_AC_TAGCONFIG
)
)# AC_LIBTOOL_SETUP

# _LT_AC_SYS_COMPILER
# -------------------
AC_DEFUN([_LT_AC_SYS_COMPILER],
[AC_REQUIRE([AC_PROG_CC])]
# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC
)# _LT_AC_SYS_COMPILER

# _LT_CC_BASENAME(CC)
# ---------------------
# Calculate cc_basename. Skip known compiler wrappers and cross-prefix.
AC_DEFUN([LT_CC_BASENAME],
  [for cc_temp in $1""; do
case $cc_temp in
  compile | *[\]/compile | *[[\]]ccache ) ;;
distcc | *[\]/distcc | purify | *[\]/purify ) ;;
\-* ) ;;
*) break;;
esac
done
cc_basename="$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-%%"
])

# _LT_COMPILER_BOILERPLATE
# ------------------------
# Check for compiler boilerplate output or warnings with
# the simple compiler test code.
AC_DEFUN([LT_COMPILER_BOILERPLATE],
  [AC_REQUIRE([LT_AC_PROG_SED])dnl
    ac_outfile=conftest.$ac_objext
    echo "$lt_simple_compile_test_code" >conftest.$ac_ext
    eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ */+d' >conftest.err
    _lt_compiler_boilerplate='cat conftest.err'
    $rm conftest*
  ])

# _LT_LINKER_BOILERPLATE
# ----------------------
# Check for linker boilerplate output or warnings with
# the simple link test code.
AC_DEFUN([LT_LINKER_BOILERPLATE],
  [AC_REQUIRE([LT_AC_PROG_SED])dnl
    ac_outfile=conftest.$ac_objext
    echo "$lt_simple_link_test_code" >conftest.$ac_ext
    eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ */+d' >conftest.err
    _lt_linker_boilerplate='cat conftest.err'
    $rm -r conftest*
  ])

# _LT_REQUIRED_DARWIN_CHECKS
# --------------------------
# Check for some things on darwin
AC_DEFUN([LT_REQUIRED_DARWIN_CHECKS],
  case $host_os in
    rhapsody* | darwin*)
    AC_CHECK_TOOL([DSYMUTIL], [dSYMUtil], [:])
AC_CHECK_TOOL([NMEDIT], [nmedit], [:])

AC_CACHE_CHECK([for -single_module linker flag], [lt_cv_apple_cc_single_mod], [lt_cv_apple_cc_single_mod=no]
   if test -z "${LT_MULTI_MODULE}"; then
   # By default we will add the -single_module flag. You can override
   # by either setting the environment variable LT_MULTI_MODULE
   # non-empty at configure time, or by adding -multi_module to the
   # link flags.
   echo "int foo(void){return 1;}" > conftest.c
   $LTCC $LTCFLAGS $LDFLAGS -o libconftest.dylib \
   -dynamiclib ${wl}-single_module conftest.c
   if test -f libconftest.dylib; then
      lt_cv_apple_cc_single_mod=yes
      rm -rf libconftest.dylib*
   fi
   rm conftest.c
   fi)

AC_CACHE_CHECK([for -exported_symbols_list linker flag], [lt_cv_ld_exported_symbols_list], [lt_cv_ld_exported_symbols_list=no]
   save_LDFLAGS=$LDFLAGS
   echo "_main" > conftest.sym
   LDFLAGS="$LDFLAGS -Wl,-exported_symbols_list,conftest.sym"
   AC_LINK_IFELSE([AC_LANG_PROGRAM([[],[]]), [lt_cv_ld_exported_symbols_list=yes], [lt_cv_ld_exported_symbols_list=no]]
   LDFLAGS="$save_LDFLAGS"
)

case $host_os in
   rhapsody* | darwin1.[0123])
      _lt_dar_allow_undefined='${wl}-undefined ${wl}suppress' ;;
   darwin1.*)
      _lt_dar_allow_undefined='${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
   darwin*)
      _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
   darwin*)
      # if running on 10.5 or later, the deployment target defaults
      # to the OS version, if on x86, and 10.4, the deployment
      # target defaults to 10.4. Don't you love it?
      case ${MACOSX_DEPLOYMENT_TARGET-10.0},$host in
         10.0,*86*-darwin8*|10.0,*-darwin[91]*)
            _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
         10.[012]*)
            _lt_dar_allow_undefined='${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
         10.*)
            _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
               esac
      esac
   esac
   esac
   esac
   esac
if test "$lt_cv_apple_cc_single_mod" = "yes"; then
   _lt_dar_single_mod='$single_module'
fi
if test "$lt_cv_ld_exported_symbols_list" = "yes"; then
   _lt_dar_export_syms=" ${wl}-exported_symbols_list,output_objdir/$libname-symbols.expym"
else
   _lt_dar_export_syms="~$NMEDIT -s $output_objdir/$libname-symbols.expym $lib"
fi
if test "SDSYMUTIL" != ":"; then
   _lt_dsymutil="~SDSYMUTIL $lib || :"
else
   _lt_dsymutil=
fi
;
esac
)

# _LT_AC_SYS_LIBPATH_AIX
# ----------------------
# Links a minimal program and checks the executable
# for the system default hardcoded library path. In most cases,
# this is /usr/lib:/lib, but when the MPI compilers are used
# the location of the communication and MPI libs are included too.
# If we don't find anything, use the default library path according
# to the aix ld manual.
AC_DEFUN(_LT_AC_SYS_LIBPATH_AIX),
[AC_REQUIRE([LT_AC_PROG_SED]),dnl
AC_LINK_IFELSE(AC_LANG_PROGRAM,[
lt_aix_libpath_sed='
/Import File Strings/,.*/ {          
/0   */ {
  s/^0  *!(.*)$/\1/ 
p          }
}      
]
lt_aix_libpath=dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then
   aix_libpath=dump -HX64 conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"
fi],[])
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi
])# _LT_AC_SYS_LIBPATH_AIX

# _LT_AC_SHELL_INIT(ARG)
# -----------------------
AC_DEFUN(_LT_AC_SHELL_INIT),
[ifdef([AC_DIVERSION_NOTICE],}
[AC_DIVERT_PUSH(AC_DIVERSION_NOTICE)],
[AC_DIVERT_PUSH(NOTICE)])
$1
AC_DIVERT_POP
)
# _LT_AC_SHELL_INIT

# _LT_AC_PROG_ECHO_BACKSLASH
# ------------------------------------------
# Add some code to the start of the generated configure script which
# will find an echo command which doesn't interpret backslashes.
AC_DEFUN([_LT_AC_PROG_ECHO_BACKSLASH],
[_LT_AC_SHELL_INIT([
# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

case X$ECHO in
X*--fallback-echo)
  # Remove one level of quotation (which was required for Make).
  ECHO='echo "$ECHO" | sed 's,\\\[$\]0,0',''
  ;;
esac
echo=${ECHO-echo}
if test "X$1" = X--no-reexec; then
  # Discard the --no-reexec flag, and continue.
  shift
elif test "X$1" = X--fallback-echo; then
  # Avoid inline document here, it may be left over
  ;:
elif test "X$(echo ' ') 2>/dev/null" = 'X' ; then
  # Yippee, $echo works!
  ;:
else
  # Restart under the correct shell.
  exec $SHELL "$0" --no-reexec $[@]
fi

if test "X$1" = X--fallback-echo; then
  # used as fallback echo
  shift
cat <&EOF
[$]*
EOF
exit 0
fi

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CPATH is set.
(unset CPATH) >/dev/null 2>&1 && unset CPATH

if test -z "$ECHO"; then
if test "X$[echo_test_string+set]" != Xset; then
# find a string as large as possible, as long as the shell can cope with it
for cmd in 'sed 50q "$\[\]0"' 'sed 20q "$\[\]0"' 'sed 10q "$\[\]0"' 'sed 2q "$\[\]0"' 'echo test'; do
# expected sizes: less than 2Kb, 1Kb, 512 bytes, 16 bytes, ...
if (echo_test_string='eval $cmd') 2>/dev/null &&
    echo_test_string='eval $cmd' &&
    (test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
then
    break
fi
done
fi

if test "X'(echo \t') 2>/dev/null'" = 'X\t' &&
    echo_testing_string=('echo "$echo_test_string"') 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
: 
else
# The Solaris, AIX, and Digital Unix default echo programs unquote
# backslashes. This makes it impossible to quote backslashes using
# echo "$something" | sed 's/\\/\\/g'
#
# So, first we look for a working echo in the user's PATH.

IFS=$"IFS"; IFS=$PATH_SEPARATOR
for dir in $PATH /usr/ucb; do
    if (test -f $dir/echo || test -f $dir/echo$ac_exeext) &&
        test "X$(dir/echo \t') 2>/dev/null'" = 'X\t' &&
        echo_testing_string=('dir/echo "$echo_test_string"') 2>/dev/null' &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        echo="dir/echo"
        break
    fi
done
IFS=$"lt_save_ifs"

if test "X$echo" = Xecho; then
    # We didn't find a better echo, so look for alternatives.
    if test "X'(print -r \t') 2>/dev/null'" = 'X\t' &&
        echo_testing_string=('print -r "$echo_test_string"') 2>/dev/null' &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        # This shell has a builtin print -r that does the trick.
        echo='print -r'
elif (test -f /bin/ksh || test -f /bin/ksh$ac_exeext) &&
test "X$CONFIG_SHELL" != X/bin/ksh; then
  # If we have ksh, try running configure again with it.
  ORIGINAL_CONFIG_SHELL=${CONFIG_SHELL-/bin/sh}
  export ORIGINAL_CONFIG_SHELL
  CONFIG_SHELL=/bin/ksh
  export CONFIG_SHELL
  exec $CONFIG_SHELL "[$\]0" --no-reexec ${1+"[$\]@"} 
else
  # Try using printf.
  echo='printf %s\n'
  if test 'X($echo \t) 2>/dev/null'' = 'X\t' &&
      echo_testing_string='($echo "$echo_test_string") 2>/dev/null' &&
      test "X$echo_testing_string" = "X$echo_test_string"; then
    # Cool, printf works :
    elf if echo_testing_string='($ORIGINAL_CONFIG_SHELL "[$\]0" --fallback-echo \t) 2>/dev/null' &&
       test "X$echo_testing_string" = \t' &&
       echo_testing_string='($ORIGINAL_CONFIG_SHELL "[$\]0" --fallback-echo "$echo_test_string") 2>/dev/null' &&
       test "X$echo_testing_string" = "$echo_test_string"; then
      CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
      export CONFIG_SHELL
      SHELL="$CONFIG_SHELL"
      export SHELL
      echo="$CONFIG_SHELL [$\]0 --fallback-echo"
      elf if echo_testing_string='($CONFIG_SHELL "$\]0" --fallback-echo \t) 2>/dev/null' &&
         test "X$echo_testing_string" = \t' &&
         echo_testing_string='($CONFIG_SHELL "$\]0" --fallback-echo "$echo_test_string") 2>/dev/null' &&
         test "X$echo_testing_string" = "$echo_test_string"; then
        echo="$CONFIG_SHELL [$\]0 --fallback-echo"
        else
          # maybe with a smaller string...
          prev=:
          for cmd in 'echo test' 'sed 2q "[$\]0"' 'sed 10q "[$\]0"' 'sed 20q "[$\]0"' 'sed 50q "[$\]0"'; do
            if (test "$echo_test_string" = "eval $cmd") 2>/dev/null
              then
                break
              fi
            prev="$cmd"
          done
          if test "$prev" != 'sed 50q "[$\]0"'; then
            echo_test_string='eval $prev'
            export echo_test_string
            exec ${ORIGINAL_CONFIG_SHELL-${CONFIG_SHELL-/bin/sh}} "[$\]0" ${1+"[$\]@"}
          else
            #...
# Oops. We lost completely, so just stick with echo.
echo=echo
fi
fi
fi
fi
fi
fi

# Copy echo and quote the copy suitably for passing to libtool from
# the Makefile, instead of quoting the original, which is used later.
ECHO=$echo
if test "X$ECHO" = "X$CONFIG_SHELL [[$]0 --fallback-echo"; then
    ECHO="$CONFIG_SHELL $[$]0 --fallback-echo"
fi

AC_SUBST(ECHO)
]]>=_LT_AC_PROG_ECHO_BACKSLASH

# _LT_AC_LOCK
# ------------
AC_DEFUN([_LT_AC_LOCK],
[AC_ARG_ENABLE([libtool-lock],
    [AC_HELP_STRING([--disable-libtool-lock],
        [avoid locking (might break parallel builds)])])
    test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

# Some flags need to be propagated to the compiler or linker for good
# libtool support.
case $host in
    ia64-[^-]*-hpux*)
    # Find out which ABI we are using.
    echo 'int i;' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
        case '/usr/bin/file conftest.$ac_objext' in
            *ELF-32*)
            HPUX_IA64_MODE="32"
            ;;
            *ELF-64*)
            HPUX_IA64_MODE="64"
            ;;
        esac
    fi
    rm -rf conftest*
    ;;
    *.*-irix6*)
    # Find out which ABI we are using.
echo '[$#line __oline__ "configure"]' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
if test "$lt_cv_prog_gnu_ld" = yes; then
case '/usr/bin/file conftest.$ac_objext' in
  *32-bit*)
    LD="$LD-ld -melf32bsmip"
  ;;
  *N32*)
    LD="$LD-ld -melf32bmpn32"
  ;;
  *64-bit*)
    LD="$LD-ld -melf64bmpi"
  ;;
esac
else
case '/usr/bin/file conftest.$ac_objext' in
  *32-bit*)
    LD="$LD-ld -32"
  ;;
  *N32*)
    LD="$LD-ld -n32"
  ;;
  *64-bit*)
    LD="$LD-ld -64"
  ;;
esac
fi
fi
rm -rf conftest*
::

x86_64-*kfreebsd*-gnu|x86_64-*linux*|ppc64-*linux*|powerpc64-*linux*| s390x-*linux*|sparc-*linux*|

# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
case '/usr/bin/file conftest.o' in
  *32-bit*)
    case $host in
      x86_64-*kfreebsd*-gnu)
        LD="$LD-ld -m elf_i386_fbsd"
      ;;
      x86_64-*linux*)
        LD="$LD-ld -m elf_i386"
      ;;
      ppc64-*linux*|powerpc64-*linux*)
        LD="$LD-ld -m elf32ppclinux"
      ;;
    esac
  ;;
  esac
fi

::
s390x-*linux*)
   LD="${LD-ld} -m elf_s390"
;;
sparc64-*linux*)
   LD="${LD-ld} -m elf32_sparc"
;;
esac
;;
*64-bit*)
case $host in
   x86_64-*kfreebsd*-gnu)
      LD="${LD-ld} -m elf_x86_64_fbsd"
   ;;
x86_64-*linux*)
   LD="${LD-ld} -m elf_x86_64"
   ;;
ppc*-*linux*|powerpc*-*linux*)
   LD="${LD-ld} -m elf64ppc"
   ;;
s390*-*linux*)
   LD="${LD-ld} -m elf64_s390"
   ;;
sparc*-*linux*)
   LD="${LD-ld} -m elf64_sparc"
   ;;
esac
;;
esac
fi
rm -rf conftest*
;;

*.-*-sco3.2v5*)
# On SCO OpenServer 5, we need -belf to get full-featured binaries.
SAVE_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -belf"
AC_CACHE_CHECK(whether the C compiler needs -belf, lt_cv_cc_needs_belf,
   [AC_LANG_PUSH(C)
   AC_TRY_LINK([],[],[lt_cv_cc_needs_belf=yes],[,lt_cv_cc_needs_belf=no])
   AC_LANG_POP])
if test x"$lt_cv_cc_needs_belf" != x"yes"; then
   # this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
   CFLAGS="$SAVE_CFLAGS"
fi
;;

sparc*-*-solaris*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  case '/usr/bin/file conftest.o' in
    *64-bit*)
      case $lt_cv_prog_gnu_ld in
        yes*) LD="${LD-ld} -m elf64_sparc" ;;
        *)
          if ${LD-ld} -64 -r -o conftest2.o conftest.o >/dev/null 2>&1; then
            LD="${LD-ld} -64"
          fi
        ;;
      esac
    ;;
    esac
  fi
  rm -rf conftest*
  ;;

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
  [*-*-cygwin* | *-*-mingw* | *-*-pw32*])
  AC_CHECK_TOOL(DLLTOOL, dlltool, false)
  AC_CHECK_TOOL(AS, as, false)
  AC_CHECK_TOOL(OBJDUMP, objdump, false)
  ;;
) esac

need_locks="$enable_libtool_lock"

)## _LT_AC_LOCK

# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
# [OUTPUT-FILE], [ACTION-SUCCESS], [ACTION-FAILURE])
# -----------------------------------------------
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION],
  [AC_REQUIRE([LT_AC_PROG_SED])
  AC_CACHE_CHECK([$1], [[$2=no
    ifelse([$4], , [ac_outfile=conftest.$ac_objext], [ac_outfile=$4])
    echo "$lt_simple_compile_test_code" > conftest.$ac_ext
    lt_compiler_flag="$3"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "conftest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work correctly.
    # The option is referenced via a variable to avoid confusing sed.
    lt_compile=echo "$ac_compile" | $SED \

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# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS, [ACTION-SUCCESS], [ACTION-FAILURE])

# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION], [AC_REQUIRE([LT_AC_PROG_SED])])

AC_CACHE_CHECK($1, $2, [2=no]

save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $3"

echo "$lt_simple_link_test_code" > conftest.$ac_ext

if (eval $ac_link 2>conftest.err) && test -s conftest$ac_exeext; then
  # The linker can only warn and ignore the option if not recognized
  # So say no if there are warnings
  if test -s conftest.err; then
    # Append any errors to the config.log.
    cat conftest.err 1>&AS_MESSAGE_LOG_FD
    $echo "X$_lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
    $SED '/^$/d; /^ */d' conftest.err >conftest.er2
    if diff conftest.exp conftest.er2 >/dev/null; then
      $2=yes
    fi
  fi
fi
$rm conftest*
)

if test x"[$2]" = xyes; then
  ifelse($5), , :, $5)
else
  ifelse($6), , :, $6)
fi

# AC_LIBTOOL_LINKER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS, [ACTION-SUCCESS], [ACTION-FAILURE])

# Check whether the given linker option works
AC_DEFUN([AC_LIBTOOL_LINKER_OPTION], [AC_REQUIRE([LT_AC_PROG_SED])])

AC_CACHE_CHECK($1, $2, [2=no]

save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $3"

echo "$lt_simple_link_test_code" > conftest.$ac_ext

if (eval $ac_link 2>conftest.err) && test -s conftest$ac_exeext; then
  # The linker can only warn and ignore the option if not recognized
  # So say no if there are warnings
  if test -s conftest.err; then
    # Append any errors to the config.log.
    cat conftest.err 1>&AS_MESSAGE_LOG_FD
    $echo "X$_lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
    $SED '/^$/d; /^ */d' conftest.err >conftest.er2
    if diff conftest.exp conftest.er2 >/dev/null; then
      $2=yes
    fi
  fi
fi

if test x"[$2]" = xyes; then
  ifelse($5), , :, $5)
else
  ifelse($6), , :, $6)
fi

)
$2=yes
fi
else
$2=yes
fi
$rm -r conftest*
LDFLAGS="$save_LDFLAGS"
}

if test x"[$$]$$2" = xyes; then
  ifelse([$4], , :, [[$4])
else
  ifelse([$5], , :, [[$5])
fi
}
# AC_LIBTOOL_LINKER_OPTION

# AC_LIBTOOL_SYS_MAX_CMD_LEN
# --------------------------
AC_DEFUN(Ac_Libtool_Sys_Max_Cmd.Len,)
[# find the maximum length of command line arguments
AC_MSG_CHECKING([the maximum length of command line arguments])
AC_CACHE_VAL(\[lt_cv_sys_max_cmd_len\], [dnl
i=0
teststring="ABCD"
case $build_os in
  msdosdjgpp*)
    # On DJGPP, this test can blow up pretty badly due to problems in libc
    # (any single argument exceeding 2000 bytes causes a buffer overrun
    # during glob expansion). Even if it were fixed, the result of this
    # check would be larger than it should be.
    lt_cv_sys_max_cmd_len=12288;    # 12K is about right
  ;;
  gnu*)
    # Under GNU Hurd, this test is not required because there is
    # no limit to the length of command line arguments.
    # Libtool will interpret -1 as no limit whatsoever
    lt_cv_sys_max_cmd_len=-1;
  ;;
  cygwin* | mingw*)
    # On Win9x/ME, this test blows up -- it succeeds, but takes
    # about 5 minutes as the teststring grows exponentially.
    # Worse, since 9x/ME are not pre-emptively multitasking,
    # you end up with a "frozen" computer, even though with patience

the test eventually succeeds (with a max line length of 256k).
# Instead, let's just punt: use the minimum linelength reported by
# all of the supported platforms: 8192 (on NT/2K/XP).
lt_cv_sys_max_cmd_len=8192;
::

amigaos*)
# On AmigaOS with pdksh, this test takes hours, literally.
# So we just punt and use a minimum line length of 8192.
lt_cv_sys_max_cmd_len=8192;
::

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
# This has been around since 386BSD, at least. Likely further.
if test -x /sbin/sysctl; then
  lt_cv_sys_max_cmd_len=’/sbin/sysctl -n kern.argmax’
elif test -x /usr/sbin/sysctl; then
  lt_cv_sys_max_cmd_len=’/usr/sbin/sysctl -n kern.argmax’
else
  lt_cv_sys_max_cmd_len=65536# usable default for all BSDs
fi
# And add a safety zone
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len / 4'
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \* 3'
::

interix*)
# We know the value 262144 and hardcode it with a safety zone (like BSD)
lt_cv_sys_max_cmd_len=196608
::

osf*)
# Dr. Hans Ekkehard Plesser reports seeing a kernel panic running configure
# due to this test when exec_disable_arg_limit is 1 on Tru64. It is not
# nice to cause kernel panics so lets avoid the loop below.
# First set a reasonable default.
lt_cv_sys_max_cmd_len=16384
#
if test -x /sbin/sysconfig; then
case '/sbin/sysconfig -q proc exec_disable_arg_limit' in
  *1*) lt_cv_sys_max_cmd_len=-1 ;;
esac
fi
::

sco3.2v5*)
lt_cv_sys_max_cmd_len=102400
::
sysv5* | sco5v6* | sysv4.2uw2*)
kargmax='grep ARG_MAX /etc/conf.cf.d/stune 2>/dev/null'
if test -n "$kargmax"; then
    lt_cv_sys_max_cmd_len='echo $kargmax | sed 's/.*\[[ ]\]//''
else
    lt_cv_sys_max_cmd_len=32768
fi
;
*]
lt_cv_sys_max_cmd_len=('(getconf ARG_MAX) 2> /dev/null'
if test -n "$lt_cv_sys_max_cmd_len"; then
    lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \* 3'
else
    SHELL=${SHELL-$(CONFIG_SHELL-/bin/sh)}
while (test "X"$SHELL [S]0 --fallback-echo "$teststring" 2>/dev/null \n    = "XX$teststring") >/dev/null 2>&1 &&
    new_result='expr "$teststring" : ".*" 2>&1' &&
    lt_cv_sys_max_cmd_len=$new_result &&
    test $i != 17 # 1/2 MB should be enough
do
    i='expr $i + 1'
    teststring=$teststring$teststring
done
    teststring=
# Add a significant safety factor because C++ compilers can tack on massive
# amounts of additional arguments before passing them to the linker.
# It appears as though 1/2 is a usable value.
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \/ 2'
fi
;
 esac
)
if test -n $lt_cv_sys_max_cmd_len ; then
    AC_MSG_RESULT($lt_cv_sys_max_cmd_len)
else
    AC_MSG_RESULT(none)
fi
)# AC_LIBTOOL_SYS_MAX_CMD_LEN

# _LT_AC_CHECK_DLFCN
# ------------------
AC_DEFUN(_LT_AC_CHECK_DLFCN, [AC_CHECK_HEADERS(dlfcn.h)dnl
])# _LT_AC_CHECK_DLFCN
# _LT_AC_TRY_DLOPEN_SELF (ACTION-IF-TRUE, ACTION-IF-TRUE-W-USCORE,
# ACTION-IF-FALSE, ACTION-IF-CROSS-COMPILING)
# ---------------------------------------

AC_DEFUN([_LT_AC_TRY_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN)])

if test "$cross_compiling" = yes; then :
    [$4]
else
    lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
    lt_status=$lt_dlunknown
    cat > conftest.$ac_ext <<EOF
    [#line __oline__ "configure"
    #include "confdefs.h"

    #include HAVE_DLFCN_H
    #include <dlfcn.h>
    #endif
    #include <stdio.h>

    #ifdef RTLD_GLOBAL
    # define LT_DLGLOBALRTLD_GLOBAL
    #else
    # ifdef DL_GLOBAL
    # define LT_DLGLOBAL	DL_GLOBAL
    # else
    # define LT_DLGLOBAL0
    # endif
    #endif

    /* We may have to define LT_DLLAZY_OR_NOW in the command line if we
    find out it does not work in some platform. */
    ifndef LT_DLLAZY_OR_NOW
    # ifdef RTLD_LAZY
    # define LT_DLLAZY_OR_NOWRTLD_LAZY
    # else
    # ifdef DL_LAZY
    # define LT_DLLAZY_OR_NOWDL_LAZY
    # else
    # ifdef RTLD_NOW
    # define LT_DLLAZY_OR_NOWRTLD_NOW
    # else
    # ifdef DL_NOW
    # define LT_DLLAZY_OR_NOWDL_NOW
    # else
    # define LT_DLLAZY_OR_NOW0
    # endif
    # endif
    # endif
    #endif
void fnord() { int i=42;}
int main ()
{
void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
int status = $lt_dlunknown;

if (self)
{
if (dlsym (self,"fnord")) status = $lt_dlno_uscore;
else if (dlsym( self,"_fnord") ) status = $lt_dlnedd_uscore;
/* dlclose (self); */
}
else
puts (dlerror ());
exit (status);
}
EOF
if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext} 2>/dev/null; then
(./conftest; exit; ) >&AS_MESSAGE_LOG_FD 2>/dev/null
lt_status=$?
case x$lt_status in
x$lt_dlno_uscore) $1 ;;
x$lt_dlnedd_uscore) $2 ;;
x$lt_dlnunknown[x$) $3 ;;
esae
else :
  # compilation failed
  $3
  fi
  fi
rm -fr conftest*
})# _LT_AC_TRY_DLOPEN_SELF

# AC_LIBTOOL_DLOPEN_SELF
# ----------------------
AC_DEFUN([AC_LIBTOOL_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLCFN])dnl
if test "x$enable_dlopen" != xy; then
  enable_dlopen=unknown

enable_dlopen_self=unknown
enable_dlopen_self_static=unknown
else
lt_cv_dlopen=no
lt_cv_dlopen_libs=

case $host_os in
  beos*)
    lt_cv_dlopen="load_add_on"
    lt_cv_dlopen_libs=
    lt_cv_dlopen_self=yes
    ;;

  mingw* | pw32*)
    lt_cv_dlopen="LoadLibrary"
    lt_cv_dlopen_libs=
    ;;

  cygwin*)
    lt_cv_dlopen="dlopen"
    lt_cv_dlopen_libs=
    ;;

  darwin*)
    # if libdl is installed we need to link against it
    AC_CHECK_LIB([dl], [dlopen],
      [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
      [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
      [lt_cv_dlopen="dyld"
        lt_cv_dlopen_libs=
        lt_cv_dlopen_self=yes
      ])
    ;;
  *)
    AC_CHECK_FUNC([shl_load],
      [lt_cv_dlopen="shl_load"],
      [AC_CHECK_LIB([dld], [shl_load],
        [lt_cv_dlopen="shl_load" lt_cv_dlopen_libs="-ldld"],
        [AC_CHECK_FUNC([dlopen],
          [lt_cv_dlopen="dlopen"],
          [AC_CHECK_LIB([dl], [dlopen],
            [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
            [AC_CHECK_LIB([svld], [dlopen],
              [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-lsvld"],
              [AC_CHECK_LIB([dld], [dld_link],
                [lt_cv_dlopen="dld_link" lt_cv_dlopen_libs="-ldld"]
              )]
            )]
          )]
        )]
      )]
    )
  )
if test "\$lt_cv_dlopen" != xno; then
    enable_dlopen=yes
else
    enable_dlopen=no
fi

case \$lt_cv_dlopen in
dlopen)
    save_CPPFLAGS="\$CPPFLAGS"
    test "\$ac_cv_header_dlfcn_h" = xyes && CPPFLAGS="\$CPPFLAGS -DHAVE_DLFCN_H"
    save_LDFLAGS="\$LDFLAGS"
    wl=\$lt_prog_compiler_wl eval LDFLAGS="\$LDFLAGS $export_dynamic_flag_spec"
    save_LIBS="\$LIBS"
    LIBS="\$lt_cv_dlopen_libs $LIBS"
    AC_CACHE_CHECK([whether a program can dlopen itself],
    lt_cv_dlopen_self, [dnl
    _LT_AC_TRY_DLOPEN_SELF(
    lt_cv_dlopen_self=yes, lt_cv_dlopen_self=yes,
    lt_cv_dlopen_self=no, lt_cv_dlopen_self=cross)
    ])
    if test "\$lt_cv_dlopen_self" = xyes; then
        wl=\$lt_prog_compiler_wl eval LDFLAGS="\$LDFLAGS $lt_prog_compiler_static"
        AC_CACHE_CHECK([whether a statically linked program can dlopen itself],
        lt_cv_dlopen_self_static, [dnl
        _LT_AC_TRY_DLOPEN_SELF(
        lt_cv_dlopen_self_static=yes, lt_cv_dlopen_self_static=yes,
        lt_cv_dlopen_self_static=no, lt_cv_dlopen_self_static=cross)
        ])
    fi

    CPPFLAGS="\$save_CPPFLAGS"
    LDFLAGS="\$save_LDFLAGS"
    LIBS="\$save_LIBS"
    ;;
    esac

    case \$lt_cv_dlopen_self in
    yes|no) enable_dlopen_self=\$lt_cv_dlopen_self ;;
*) enable_dlopen_self=unknown ;;
esac

case $lt_cv_dlopen_self_static in
yes(no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;;
*) enable_dlopen_self_static=unknown ;;
esac
fi
))# AC_LIBTOOL_DLOPEN_SELF

# AC_LIBTOOL_PROG_CC_C_O(TAGNAME))
# ---------------------------------
# Check to see if options -c and -o are simultaneously supported by compiler
AC_DEFUN([AC_LIBTOOL_PROG_CC_C_O],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl
AC_CACHE_CHECK([if $compiler supports -c -o file.$ac_objext],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=no
rm -r conftest 2>/dev/null
mkdir conftest
cd conftest
mkdir out
echo "$lt_simple_compile_test_code" > conftest.$ac_ext

lt_compiler_flag="-o out/conftest2.$ac_objext"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
lt_compile='echo "$ac_compile" | $SED \
-"e":/^[^\s]*FLAGS}/\(0,1\) :&$lt Compiler_flag : t \\
-"e":/^[^\s]*conftest.: $lt Compiler_flag&.; t \\
-"e":$lt Compiler_flag:";
(eval echo "\"$ac Me::_oline:: $lt compile\"" >&AS_MESSAGE_LOG_FD)
(eval "$lt_compile" 2>out/conftest.err)
ac_status=$?
cat out/conftest.err >&AS_MESSAGE_LOG_FD
echo "$ac Me::_oline:: $ac status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) && test -s out/conftest2.$ac_objext
then
   # The compiler can only warn and ignore the option if not recognized
   # So say no if there are warnings
   Secho "X$lt Compiler_boilerplate" | $Sed -e /^$/d > out/conftest.exp
   $Sed '/^$/d; /^ *+d' out/conftest.err >out/conftest.err2
   if test ! -s out/conftest.err2 || diff out/conftest.exp out/conftest.err2 >/dev/null; then
      _LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes
   fi
fi

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

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fi
fi
chmod u+w . 2>&AS_MESSAGE_LOG_FD
$rm conftest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rm out/ii_files
$rm out/* && rm out
 cd ..
rmr dir conftest
$rm conftest*
)
})# AC_LIBTOOL_PROG_CC_C_O

# AC_LIBTOOL_SYS_HARD_LINK_LOCKS([TAGNAME])
# -----------------------------------------
# Check to see if we can do hard links to lock some files if needed
AC_DEFUN([AC_LIBTOOL_SYS_HARD_LINK_LOCKS], [AC_REQUIRE([_LT_AC_LOCK])dnl

hard_links="nottested"
if test "$_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)" = no && test "$need_locks" != no; then
# do not overwrite the value of need_locks provided by the user
AC_MSG_CHECKING([if we can lock with hard links])
hard_links=yes
$rm conftest *
 ln conftest.a conftest.b 2>/dev/null && hard_links=no
touch conftest.a
ln conftest.a conftest.b 2>&5 || hard_links=no
ln conftest.a conftest.b 2>/dev/null && hard_links=no
AC_MSG_RESULT([hard_links])
if test "hard_links" = no; then
  AC_MSG_WARN(["$CC" does not support '-c -o', so 'make -j' may be unsafe])
  need_locks=warn
  fi
else
  need_locks=no
  fi
})# AC_LIBTOOL_SYS_HARD_LINK_LOCKS

# AC_LIBTOOL_OBJDIR
# -----------------
AC_DEFUN([AC_LIBTOOL_OBJDIR], [AC_CACHE_CHECK([for objdir] [[lt_cv_objdir], [rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
rm -f .libs 2>/dev/null
rm -f .libs 2>/dev/null

if test -d .libs; then
  lt_cv_objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  lt_cv_objdir=\_libs
fi
rmdir .libs 2>/dev/null)
objdir=$lt_cv_objdir
)# AC_LIBTOOL_OBJDIR

# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH([TAGNAME])
# -----------------------------------------------
# Check hardcoding attributes.
AC_DEFUN([AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH],
[AC_MSG_CHECKING([how to hardcode library paths into programs])]
  _LT_AC_TAGVAR(hardcode_action, $1)=
  if test -n "$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)" ||
    test -n "$_LT_AC_TAGVAR(runpath_var, $1)" ||
    test "X$_LT_AC_TAGVAR(hardcode_automatic, $1)" = "Xyes" ; then
    # We can hardcode non-existant directories.
    if test "$_LT_AC_TAGVAR(hardcode_direct, $1)" != no &&
      # If the only mechanism to avoid hardcoding is shlibpath_var, we
      # have to relink, otherwise we might link with an installed library
      # when we should be linking with a yet-to-be-installed one
      ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)" != no &&
      test "$_LT_AC_TAGVAR(hardcode_minus_L, $1)" != no; then
        # Linking always hardcodes the temporary library directory.
        _LT_AC_TAGVAR(hardcode_action, $1)=relink
      else
        # We can link without hardcoding, and we can hardcode nonexisting dirs.
        _LT_AC_TAGVAR(hardcode_action, $1)=immediate
      fi
  else
    # We cannot hardcode anything, or else we can only hardcode existing
    # directories.
    _LT_AC_TAGVAR(hardcode_action, $1)=unsupported
  fi
  AC_MSG_RESULT([$_LT_AC_TAGVAR(hardcode_action, $1)])

if test "$_LT_AC_TAGVAR(hardcode_action, $1)" = relink; then
  # Fast installation is not supported
  enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
  test "$enable_shared" = no; then
  # Fast installation is not necessary
  enable_fast_install=needless
fi
])# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH

# AC_LIBTOOL_SYS_LIB_STRIP
# ------------------------
AC_DEFUN([AC_LIBTOOL_SYS_LIB_STRIP],
[striplib=
    old_striplib=
AC_MSG_CHECKING([whether stripping libraries is possible])
if test -n "$STRIP" && $STRIP -V 2>&1 | grep "GNU strip" >/dev/null; then
test -z "$old_striplib" && old_striplib="$STRIP --strip-debug"
    test -z "$striplib" && striplib="$STRIP --strip-unneeded"
    AC_MSG_RESULT([yes])
else
    # FIXME - insert some real tests, host_os isn't really good enough
case $host_os in
darwin*)
    if test -n "$STRIP" ; then
        striplib="$STRIP -x"
        old_striplib="$STRIP -S"
        AC_MSG_RESULT([yes])
    else
        AC_MSG_RESULT([no])
        ;;
        esac
fi
])# AC_LIBTOOL_SYS_LIB_STRIP

# AC_LIBTOOL_SYS_DYNAMIC_LINKER
# -----------------------------
# PORTME Fill in your ld.so characteristics
AC_DEFUN([AC_LIBTOOL_SYS_DYNAMIC_LINKER],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([dynamic linker characteristics])
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds='.so'
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=


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shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlssearch_path_spec="/lib /usr/lib"
m4_if($1,[],[
  if test "$GCC" = yes; then
    case $host_os in
      darwin*) lt_awk_arg="/^libraries:/,LR/" ;;
      *) lt_awk_arg="/^libraries:" ;;
      esac
    lt_search_path_spec=$CC -print-search-dirs | awk $lt_awk_arg | $SED -e "s/\^libraries://" -e "s,=/,/,g"
    if echo "$lt_search_path_spec" | grep ';' >/dev/null ; then
      # if the path contains ";" then we assume it to be the separator
      # otherwise default to the standard path separator (i.e. ";") - it is
      # assumed that no part of a normal pathname contains ";" but that should
      # okay in the real world where ";" in dirpaths is itself problematic.
      lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e 's/;/ /g''
    else
      lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e "s/$PATH_SEPARATOR/ /g"'
    fi
    # Ok, now we have the path, separated by spaces, we can step through it
    # and add multilib dir if necessary.
    lt_tmp_lt_search_path_spec=
    lt_multi_os_dir='$CC $CPPFLAGS $CFLAGS $LDFLAGS -print-multi-os-directory 2>/dev/null'
    for lt_sys_path in $lt_search_path_spec; do
      if test -d "$lt_sys_path/$lt_multi_os_dir"; then
        lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path/$lt_multi_os_dir"
      else
        test -d "$lt_sys_path" && 
        lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path"
      fi
    done
    lt_search_path_spec='echo $lt_tmp_lt_search_path_spec | awk '{
      BEGIN {RS=" "; FS="/|\n";}
      lt_foo="";
      lt_count=0;
      for (lt_i = NF; lt_i > 0; lt_i--) {
        if ($lt_i !="" && $lt_i !="") {
          if ($lt_i == "..") {
            lt_count++;
          } else {
            if (lt_count == 0) {
              lt_foo="/" $lt_i lt_foo;
            } else {
              lt_count--;
            }
          }
        }
      }
    }'}
if (lt_foo != "") { lt_freq[lt_foo]++; }
if (lt_freq[lt_foo] == 1) { print lt_foo; }
"
sys_lib_search_path_spec='echo $lt_search_path_spec'
else
sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi)
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
  aix3*)
    version_type=linux
    library_names_spec='$libname$release$shared_ext$versuffix $libname.a'
    shlibpath_var=LIBPATH

    # AIX 3 has no versioning support, so we append a major version to the name.
    soname_spec='$libname$release$shared_ext$major'
    ;;

  aix[[4-9]]*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    hardcode_into_libs=yes
    if test "$host_cpu" = ia64; then
      # AIX 5 supports IA64
      library_names_spec='$libname$release$shared_ext$major $libname$release$shared_ext$versuffix $libname$shared_ext'
      shlibpath_var=LD_LIBRARY_PATH
    else
      # With GCC up to 2.95.x, collect2 would create an import file
      # for dependence libraries. The import file would start with
      # the line `#! *'. This would cause the generated library to
      # depend on `*;', always an invalid library. This was fixed in
      # development snapshots of GCC prior to 3.0.
      case $host_os in
        aix4 | aix4.[01] | aix4.[01]*)
          if [ echo "#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >= 97)" 
           echo 'yes'
           echo '#endif'; ] | ${CC} -E - | grep yes > /dev/null; then
        :
else
  can_build_shared=no
  fi
  ;;
esac

# AIX (on Power*) has no versioning support, so currently we can not hardcode correct
# soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
if test "$aix_use_runtimelinking" = yes; then
  # If using run time linking (on AIX 4.2 or later) use lib<name>.so
  # instead of lib<name>.a to let people know that these are not
  # typical AIX shared libraries.
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
  $libname${shared_ext}'
else
  # We preserve .a as extension for shared libraries through AIX4.2
  # and later when we are not doing run time linking.
  library_names_spec='${libname}${release}.a $libname.a'
  soname_spec='${libname}${release}${shared_ext}$major'
  fi
shlibpath_var=LIBPATH
fi
;;

amigaos*)
  library_names_spec=$libname.ixlibrary $libname.a'
  # Create ${libname}_ixlibrary.a entries in /sys/libs.
  finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do libname=`Secho "$Xlib" | $Xsed -e "\%s%[^/]/\([^/]*\).ixlibrary\%s\%"`; test $rm /sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a | exit 1; done'
  ;;

beos*)
  library_names_spec='${libname}${shared_ext}'
dynamic_linker="$ghost_os ld.so"
shlibpath_var=LIBRARY_PATH
  ;;

bsdii[[45]]*)
  version_type=linux
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
  $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}${major}'
  finish_cmds='PATH="$PATH:/sbin" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH
sys_lib_dlssearch_path_spec="/shlib /usr/lib /usr/local/lib"
# the default ld.so.conf also contains /usr/contrib/lib and
# /usr/X11R6/lib (and /usr/X11 exists a link to /usr/X11R6), but let us allow
# libtool to hard-code these into programs
#

cygwin* | mingw* | pw32*)
version_type=windows
shrext_cmds=".dll"
need_version=no
need_lib_prefix=no

case $GCC,$host_os in
  yes,cygwin* | yes,mingw* | yes,pw32*)
    library_names_spec='$libname.dll.a'
    # DLL is installed to $libdir)/../bin by postinstall_cmds
    postinstall_cmds='base_file=basename ${file}~
dlpath=$SHELL 2>&1 -c "$dir/\"${base_file}\"\$dir/\"${file}~
dldir=$destdir/\$dirname/\$dlpath~
test -d "$dldir" || mkdir -p "$dldir~
$install_prog "$dir/\$dlname ~
chmod a+x "$dldir/\$dlname~
    postuninstall_cmds='dldll=$SHELL 2>&1 -c "$dir/\$dlname ~
dlpath=$dir/\$dldll~
rm "$dlpath~
shlibpath_overrides_runpath=yes

case $host_os in
  cygwin*)
    # Cygwin DLLs use 'cyg' prefix rather than 'lib'
    soname_spec='echo ${libname} | sed -e 's/\lib/cyg/"$\{release\} | SED -e \"s/[c-zC-Z]/-"/g"$\{versuffix\}$\{shared_ext\}
    sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"~
    ;;
  mingw*)
    # MinGW DLLs use traditional 'lib' prefix
    soname_spec='echo ${libname} \$release | SED -e \"s/\$\{release\} | SED -e \"s/[c-zC-Z]/-"/g"$\{versuffix\}$\{shared_ext\}
    sys_lib_search_path_spec="\''$CC -print-search-dirs | grep "^libraries:" | SED -e \"s/\$\{libraries\:"/ -e \"s,=/,/,g\" 
    if echo "$sys_lib_search_path_spec" | grep '[c-zC-Z]:/| > /dev/null; then
      # It is most probably a Windows format PATH printed by
      # mingw gcc, but we are running on Cygwin. Gcc prints its search
      # path with ; separators, and with drive letters. We can handle the
      # drive letters (cygwin fileutils understands them), so leave them,
      # especially as we might pass files found there to a mingw objdump,
      # which wouldn't understand a cygwinified path. Ahh.
      sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | SED -e \"s/\$PATH\$/g" 
    else
      sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | SED -e \"s/\$PATH_SEPARATOR/\$/g" 
    fi


pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec='echo ${libname} | sed -e 's/\(lib/\(pw/\)echo ${release} | $SED -e s/[.]/-g"$\{versuffix\}$\{shared_ext\} $libname.lib'
    esac
    esac
* )
    library_names_spec='$(libname)echo ${release} | $SED -e s/[.]/-g"$\{versuffix\}$\{shared_ext\} $libname.lib'
    esac
  dynamic_linker='Win32 ld.exe'
  # FIXME: first we should search . and the directory the executable is in
  shlibpath_var=PATH
  ::

darwin* | rhapsody*)
  dynamic_linker="$host_os dyld"
  version_type=darwin
  need_lib_prefix=no
  need_version=no
  library_names_spec=${libname}${release}${versuffix}$shared_ext ${libname}${release}${major}$shared_ext
  soname_spec=${libname}${release}${major}$shared_ext
  shlibpath_overrides_runpath=yes
  shlibpath_var=DYLD_LIBRARY_PATH
  shrext_cmds="test .$module = .yes && echo .so || echo .dylib"
  m4_if([[$1]], [], [sys_lib_search_path_spec="$sys_lib_search_path_spec /usr/local/lib")]
  sys_lib_dlssearch_path_spec='/usr/local/lib /lib /usr/lib'
  ::

dgux*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec=${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext}$major
  soname_spec=${libname}${release}${shared_ext}$major
  shlibpath_var=LD_LIBRARY_PATH
  ::

freebsd1*)
  dynamic_linker=no
  ::
freebsd* | dragonfly*)
# DragonFly does not have aout. When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
  objformat=/usr/bin/objformat'
else
  case $host_os in
    freebsd*[[123]]*) objformat=aout ;;
    *) objformat=elf ;;
  esac
fi

version_type=freebsd-objformat
case $version_type in
  freebsd-elf*)
    library_names_spec='${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext}
    $libname${shared_ext}'
    need_version=no
    need_lib_prefix=no
    ;;
  freebsd-*
    library_names_spec='${libname}${release}${shared_ext}${versuffix} $libname${shared_ext}${versuffix}'
    need_version=yes
    ;;
  esac
shlibpath_var=LD_LIBRARY_PATH
case $host_os in
  freebsd2*)
    shlibpath_overrides_runpath=yes
    ;;
  freebsd3.[[01]]* | freebsdelf3.[[01]]*)
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;
  freebsd3.[[2-9]]* | freebsdelf3.[[2-9]]*)
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;
  freebsd4.[[0-5]]* | freebsdelf4.[[0-5]]* freebsd4.1.1 | freebsdelf4.1.1)
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;
  *) # from 4.6 on, and DragonFly
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;
  esac
  ;;

gnu*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}${major} ${libname}${shared_ext}'
soname_spec=${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
hardcode_into_libs=yes
::

hpx9* | hpx10* | hpx11*)
# Give a soname corresponding to the major version so that dld.sl refuses to
# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
ia64*)
  shrext_cmds=.'so'
  hardcode_into_libs=yes
  dynamic_linker="$host_os dld.so"
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
  library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
  soname_spec=${libname}${release}${shared_ext}$major'
  if test "X$HPUX_IA64_MODE" = X32; then
    sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32 /usr/local/lib"
  else
    sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
  fi
  sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
;:
hppa*64*)
  shrext_cmds=.'sl'
  hardcode_into_libs=yes
  dynamic_linker="$host_os dld.sl"
  shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
  shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
  library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
  soname_spec=${libname}${release}${shared_ext}$major'
  sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
  sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
;:
*)
  shrext_cmds=.'sl'
  dynamic_linker="$host_os dld.sl"
  shlibpath_var=SHLIB_PATH
  shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH

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library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}${major} $libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}${major}'

HP-UX runs *really* slowly unless shared libraries are mode 555.

postinstall_cmds='chmod 555 $lib'

interix[[3-9]]*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}${major} $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}${major}'
    dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;

    irix5* | irix6* | nonstopux*)
    case $host_os in
        nonstopux*) version_type=nonstopux ;;
        *)
        if test "$lt_cv_prog_gnu_ld" = yes; then
            version_type=linux
        else
            version_type=irix
        fi ;;
    esac
    need_lib_prefix=no
    need_version=no
    soname_spec='${libname}${release}${shared_ext}${major}'
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}${major} $libname${shared_ext} $libname${shared_ext}'
    case $host_os in
        irix5* | nonstopux*)
        libsuff= shlibsuff=
        ;;
        *)
        case $LD in
            # libtool.m4 will add one of these switches to LD
            -*32|*-32 "*-melf32bsmip|*-melf32bsmip"
            libsuffix= libmagic=32-bit ;;
            -*n32|*-n32 "*-melf32bmi32|*-melf32bmi32"
            libsuffix= N32 libmagic=N32 ;;
            -*64|*-64 "*-melf64bmi|*-melf64bmi"
            libsuffix= libmagic=N64 ;;
            esac

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libsuff=64 shlibsuff=64 libmagic=64-bit;;
*) libsuff= shlibsuff= libmagic=never-match;;
esac
;;
esac
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_dlssearch_path_spec="/usr/lib$[libsuff] /lib$[libsuff]"
hardcode_into_libs=yes
;;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
dynamic_linker=no
;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major $libname${shared_ext}]
soname_spec=${libname}${release}${shared_ext}$major'
finish_cmds='PATH="$PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
# This implies no fast_install, which is unacceptable.
# Some rework will be needed to allow for fast_install
# before this can be enabled.
hardcode_into_libs=yes

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
  lt_ld_extra='awk '/^include / { system(sprintf("cd /etc; cat %s 2>/dev/null", \[$]2)); skip = 1; } { if (!skip) print \[$]0; skip = 0; } < /etc/ld.so.conf | SED -e s#/.*[;]
  sys_lib_dlssearch_path_spec="/lib /usr/lib $lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker.  Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker="GNU/Linux ld.so"
netbsd*)
  version_type=sunos
  need_lib_prefix=no
  need_version=no
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    library_names_spec='${libname}${release}${shared_ext}${versuffix} ${libname}${shared_ext}${versuffix}
    finish_cmds='PATH="${PATH}:${SHlibdir}" ldconfig -m $libdir'
    dynamic_linker='NetBSD (a.out) ld.so'
  else
    library_names_spec='${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext}${major}
    soname_spec='${libname}${release}${shared_ext}${major}'
    dynamic_linker='NetBSD ld.elf.so'
  fi
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  hardcode_into_libs=yes
  ;;

newsos6)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext}${major}
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  ;;

nto-qnx*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext}${major}
  soname_spec='${libname}${release}${shared_ext}${major}'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  ;;

openbsd*)
  version_type=sunos
  sys_lib_dlssearch_path_spec="/usr/lib"
  need_lib_prefix=no
  # Some older versions of OpenBSD (3.3 at least) *do* need versioned libs.
  case $host_os in
    openbsd3.3 | openbsd3.3.*) need_version=yes ;;
    *) need_version=no ;;
esac
library_names_spec='\$\{libname\}\$\{release\}\$\{shared_ext\}\$\{versuffix\} \$\{libname\}\$\{shared_ext\}\$\{versuffix\}'
finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $\{libdir\}'
shlibpath_var=LD_LIBRARY_PATH
if test -z "\"echo _ELF__ | $CC -E - | grep _ELF__\" \"|| test "\"Host_os-$\{host_cpu\} = "\"openbsd2.8-powerpc"\"; then
  case $\{host_os\} in
    openbsd2.*)
      shlibpath_overrides_runpath=no
    ;;
    *)
      shlibpath_overrides_runpath=yes
    ;;
  esac
else
  shlibpath_overrides_runpath=yes
fi

os2*)
  libname_spec='\$name'
  shrext_cmds='.dll'
  need_lib_prefix=no
  library_names_spec='\$\{libname\}\$\{shared_ext\} $\{libname\}.a'
  dynamic_linker='OS/2 ld.exe'
  shlibpath_var=LIBPATH
  ;;

osf3* | osf4* | osf5*)
  version_type=osf
  need_lib_prefix=no
  need_version=no
  soname_spec='\$\{libname\}\$\{release\}\$\{shared_ext\}\$\{major\}'
  library_names_spec='\$\{libname\}\$\{release\}\$\{shared_ext\}\$\{versuffix\} \$\{libname\}\$\{release\}\$\{shared_ext\}\$\{major\} $\{libname\}\$\{shared_ext\}\$\{versuffix\}'
  shlibpath_var=LD_LIBRARY_PATH
  sys_lib_search_path_spec='/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc /usr/lib /usr/local/lib /var/shlib'
  sys_lib_dlssearch_path_spec="$\{sys_lib_search_path_spec\}"
  ;;

rdos*)
  dynamic_linker=no
  ;;

solaris*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='\$\{libname\}\$\{release\}\$\{shared_ext\}\$\{versuffix\} $\{libname\}\$\{release\}\$\{shared_ext\}\$\{major\}'
$libname$(shared_ext)'  
soname_spec=${libname}${release}$(shared_ext)$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
# ldd complains unless libraries are executable
postinstall_cmds='chmod +x $lib'
;;

sunos4*)
  version_type=sunos
  library_names_spec=${libname}${release}$(shared_ext)$versuffix ${libname}$(shared_ext)$versuffix
  finish_cmds='PATH="$PATH:/usr/etc" ldconfig $libdir'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  if test "$with_gnu_ld" = yes; then
    need_lib_prefix=no
  fi
  need_version=yes
  ;;

sysv4 | sysv4.3*)
  version_type=linux
  library_names_spec=${libname}${release}$(shared_ext)$versuffix ${libname}${release}$(shared_ext)$major
  $libname$(shared_ext)'
  soname_spec=${libname}${release}$(shared_ext)$major'
  shlibpath_var=LD_LIBRARY_PATH
  case $host_vendor in
  sni)
    shlibpath_overrides_runpath=no
    need_lib_prefix=no
    export_dynamic_flag_spec='$wl}-Blargedynsym'
    runpath_var=LD_RUN_PATH
    ;;
  siemens)
    need_lib_prefix=no
    ;;
  motorola)
    need_lib_prefix=no
    need_version=no
    shlibpath_overrides_runpath=no
    sys_lib_search_path_spec=/lib /usr/lib /usr/ccs/lib'
    ;;
  esac
  ;;

sysv4*MP*)
  if test -d /usr/sec ;then

version_type=linux
library_names_spec='$libname${shared_ext}$versuffix $libname${shared_ext}$major $libname${shared_ext}$'
soname_spec='$libname${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
fi
;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
version_type=freebsd-elf
need_lib_prefix=no
need_version=no
library_names_spec='$libname$release$shared_ext$versuffix $libname$release$shared_ext
$libname$shared_ext$'
soname_spec='$libname$release$shared_ext$major'
shlibpath_var=LD_LIBRARY_PATH
hardcode_into/libs=yes
if test "$with_gnu_ld" = yes; then
  sys_lib_search_path_spec=/usr/local/lib /usr/gnu/lib /usr/ccs/lib /usr/lib /lib
  shlibpath_overrides_runpath=no
else
  sys_lib_search_path_spec=/usr/ccs/lib /usr/lib
  shlibpath_overrides_runpath=yes
  case $host_os in
    sco3.2v5*)
      sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
    ;;
    esac
fi
sys_lib_dlsearch_path_spec=/usr/lib
;;

uts4*)
version_type=linux
library_names_spec='$libname$release$shared_ext$versuffix $libname$release$shared_ext$major $libname$shared_ext$'
soname_spec='$libname$release$shared_ext$major'
shlibpath_var=LD_LIBRARY_PATH
;;

*)
dynamic_linker=no
;;
esac
AC_MSG_RESULT([dynamic_linker])
test "dynamic_linker" = no && can_build_shared=no

AC_CACHE_VAL([lt_cv_sys_lib_search_path_spec], [lt_cv_sys_lib_search_path_spec="$sys_lib_search_path_spec")}
sys_lib_search_path_spec="$lt_cv_sys_lib_search_path_spec"
AC_CACHE_VAL([lt_cv_sys_lib_dlsearch_path_spec],
[lt_cv_sys_lib_dlsearch_path_spec="$sys_lib_dlsearch_path_spec"])
sys_lib_dlsearch_path_spec="$lt_cv_sys_lib_dlsearch_path_spec"

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
  variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX COMPILER_PATH LIBRARY_PATH"
fi
)# AC_LIBTOOL_SYS_DYNAMIC_LINKER

# _LT_AC_TAGCONFIG
# ------------
AC_DEFUN([_LT_AC_TAGCONFIG],
[AC_REQUIRE([LT_AC_PROG_SED])]
AC_ARG_WITH([tags],
[AC_HELP_STRING([--with-tags=<:TAGS:>@],
[including additional configurations <:@automatic:@:>@])],
tagnames="$withval")
if test -f "$ltmain" && test -n "$tagnames"; then
  if test ! -f "${ofile}"; then
    AC_MSG_WARN([output file 'sofile' does not exist])
  fi
  if test -z "$LTCC"; then
    eval "SSHELL ${ofile} --config | grep '^LTCC='"
    if test -z "$LTCC"; then
      AC_MSG_WARN([output file 'sofile' does not look like a libtool script])
    else
      AC_MSG_WARN([using 'LTCC=$LTCC', extracted from 'sofile'])
    fi
  fi
  if test -z "$LTCFLAGS"; then
    eval "SSHELL ${ofile} --config | grep '^LTCFLAGS='"
  fi
fi
if test -z "$LTCC"; then
  eval "SSHELL ${ofile} --config | grep '^LTCC='"
else
  AC_MSG_WARN([using 'LTCC=$LTCC', extracted from 'sofile'])
fi

# Extract list of available tagged configurations in sofile.
# Note that this assumes the entire list is on one line.
available_tags='grep "^available_tags=" "$ofile" | $SED -e 's/available_tags=".*$/\1/\1" -e 's/\"/\"/g"'

lt_save_ifs="IFS=$IFS,IFS="$IFS$PATH_SEPARATOR,"
for tagnam in $tagnames; do
  IFS="$lt_save_ifs"
  # Check whether tagnam contains only valid characters
  case "$tagnam" in
    ^[a-zA-Z0-9_]*$)
      # Do something with valid tagnam
    #case ''"echo "$tagnam" | $Sed -e 's/'"s/'$/g"'
  esac
  ;;
  esac
done

if grep "^### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "$ofile" > /dev/null then
AC_MSG_ERROR([invalid tag name: $tagname])
fi

# Update the list of available tags.
if test -n "$tagname"; then
echo appending configuration tag "$tagname" to $ofile

case $tagname in
  CXX)
    if test -n "$CXX" && ( test "$X$CXX" != "Xno" &&
      ( (test "$X$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1' ) ||
      (test "$X$CXX" != "Xg++") ) ) ; then
      AC_LIBTOOL_LANG_CXX_CONFIG
    else
      tagname=""
    fi
   ;;
  F77)
    if test -n "$F77" && test "$X$F77" != "Xno"; then
      AC_LIBTOOL_LANG_F77_CONFIG
    else
      tagname=""
    fi
   ;;
  GCJ)
    if test -n "$GCJ" && test "$X$GCJ" != "Xno"; then
      AC_LIBTOOL_LANG_GCJ_CONFIG
    else
      tagname=""
    fi
   ;;
  RC)
    AC_LIBTOOL_LANG_RC_CONFIG
   ;;
  *)
    AC_MSG_ERROR([Unsupported tag name: $tagname])
esac

# Append the new tag name to the list of available tags.
if test -n "$tagname" ; then
    available_tags="$available_tags $tagname"
fi
fi
done
IFS="$lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e 's/^available_tags=.*/$available_tags="/ \"$ofile\" > \"${ofile}\""; then
    mv "${ofile}" "$ofile"
    chmod +x "$ofile"
else
    rm -f "${ofile}";
    AC_MSG_ERROR([unable to update list of available tagged configurations.])
fi
fi
])# _LT_AC_TAGCONFIG

# AC_LIBTOOL_DLOPEN
# --------------------
# enable checks for dlopen support
AC_DEFUN([AC_LIBTOOL_DLOPEN],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])]
])# AC_LIBTOOL_DLOPEN

# AC_LIBTOOL_WIN32_DLL
# ---------------------
# declare package support for building win32 DLLs
AC_DEFUN([AC_LIBTOOL_WIN32_DLL],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])]
])# AC_LIBTOOL_WIN32_DLL

# AC_ENABLE_SHARED([DEFAULT])
# ---------------------------
# implement the --enable-shared flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_SHARED],
[define([AC_ENABLE_SHARED_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([shared],
    [AC_HELP_STRING([--enable-shared@<:@=PKGS@:>@],
    [build shared libraries @<:@default=]AC_ENABLE_SHARED_DEFAULT[@::@]])],

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case $enableval in
  yes) enable_shared=yes ;;
  no) enable_shared=no ;;
  *)
    enable_shared=no
    # Look at the argument we got. We use all the common list separators.
    IFS="$IFS"; IFS="$IFS$PATH_SEPARATOR,";
    for pkg in $enableval; do
      IFS="$IFS"
      if test "X$pkg" = "X$p"; then
        enable_shared=yes
      fi
    done
    IFS="$IFS"
    ;;
  esac,
  [enable_shared=[AC_ENABLE_SHARED_DEFAULT])
)## AC_ENABLE_SHARED

# AC_DISABLE_SHARED
# -----------------
# set the default shared flag to --disable-shared
AC_DEFUN([AC_DISABLE_SHARED],
  [AC_BEFORE([$0], [AC_LIBTOOL_SETUP])dnl
    AC_ENABLE_SHARED(no)
)]## AC_DISABLE_SHARED

# AC_ENABLE_STATIC([DEFAULT])
# ---------------------------
# implement the --enable-static flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_STATIC],
  [define([AC_ENABLE_STATIC_DEFAULT], ifelse($1, no, no, yes))dnl
    AC_ARG_ENABLE([static],
      [AC_HELP_STRING([--enable-static@<:@=PKGS@:>@],
        [build static libraries @<:@default=[AC_ENABLE_STATIC_DEFAULT[@::@]>)]
      [p=${PACKAGE-default]
        case $enableval in
          yes) enable_static=yes ;;
          no) enable_static=no ;;
          *)
            enable_static=no
            # Look at the argument we got. We use all the common list separators.
            IFS="$IFS"; IFS="$IFS$PATH_SEPARATOR,";
            for pkg in $enableval; do

IFS="$lt_save_ifs"
if test "X$pkg" = "X$p"; then
    enable_static=yes
fi
done
IFS="$lt_save_ifs"
;;
esac],
[enable_static=]AC_ENABLE_STATIC_DEFAULT)
])# AC_ENABLE_STATIC

# AC_DISABLE_STATIC
# ""------------
# set the default static flag to --disable-static
AC_DEFUN([AC_DISABLE_STATIC],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_STATIC(no)
])# AC_DISABLE_STATIC

# AC_ENABLE_FAST_INSTALL([DEFAULT])
# ""-----------------------------
# implement the --enable-fast-install flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_FAST_INSTALL],
[define([AC_ENABLE_FAST_INSTALL_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([fast-install],
[AC_HELP_STRING([--enable-fast-install@<:@=PKGS@:>@]
[optimize for fast installation @<:@default=]AC_ENABLE_FAST_INSTALL_DEFAULT[<:@@@ ]),
[p=${PACKAGE-default}
case $enableval in
  yes) enable_fast_install=yes ;;
  no) enable_fast_install=no ;;
  *)
    enable_fast_install=no
# Look at the argument we got. We use all the common list separators.
lt_save_ifs="$IFS"; IFS="[$IFS]$PATH_SEPARATOR;"
for pkg in $enableval; do
    IFS="$lt_save_ifs"
    if test "X$pkg" = "X$p"; then
        enable_fast_install=yes
    fi
done
IFS="$lt_save_ifs"
;;
esac],
[enable_fast_install=]AC_ENABLE_FAST_INSTALL_DEFAULT)
])# AC_ENABLE_FAST_INSTALL

# AC_DISABLE_FAST_INSTALL
# ----------------------# set the default to --disable-fast-install
AC_DEFUN([AC_DISABLE_FAST_INSTALL],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_FAST_INSTALL(no)
])# AC_DISABLE_FAST_INSTALL

# AC_LIBTOOL_PICMODE([MODE])
# -------------------------# implement the --with-pic flag
# MODE is either 'yes' or 'no'. If omitted, it defaults to 'both'.
AC_DEFUN([AC_LIBTOOL_PICMODE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
pic_mode=ifelse($#,1,$1,default)
])# AC_LIBTOOL_PICMODE

# AC_PROG_EGREP
# ------------# This is predefined starting with Autoconf 2.54, so this conditional
# definition can be removed once we require Autoconf 2.54 or later.
m4_ifndef([AC_PROG_EGREP], [AC_DEFUN([AC_PROG_EGREP],
[AC_CACHE_CHECK([for egrep], [ac_cv_prog_egrep],
[if echo a | (grep -E '(a|b)') >/dev/null 2>&1
then ac_cv_prog_egrep='grep -E'
else ac_cv_prog_egrep='egrep'
fi])
EGREP=$ac_cv_prog_egrep
AC_SUBST([EGREP])
])])

# AC_PATH_TOOL_PREFIX
# ------------------# find a file program which can recognize shared library
AC_DEFUN([AC_PATH_TOOL_PREFIX],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_MSG_CHECKING([for $1])
AC_CACHE_VAL(lt_cv_path_MAGIC_CMD,
[case $MAGIC_CMD in
[[\\/*] | ?:[\\/]*])
lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with a path.
;;

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lt_save_MAGIC_CMD="$MAGIC_CMD"
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
dnl $ac_dummy forces splitting on constant user-supplied paths.
dnl POSIX.2 word splitting is done only on the output of word expansions,
dnl not every word. This closes a longstanding sh security hole.
ac_dummy="ifelse([$2], , $PATH, [$2])"
for ac_dir in $ac_dummy; do
  IFS="$lt_save_ifs"
  test -z "$ac_dir" && ac_dir=.
  if test -f $ac_dir/$1; then
    lt_cv_path_MAGIC_CMD="$ac_dir/$1"
    if test -n "$file_magic_test_file"; then
      case $deplibs_check_method in
        "file_magic ")
        file_magic_regex='expr "$deplibs_check_method" : "file_magic \(.\)*"'
        MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
        if eval $file_magic_cmd $file_magic_test_file 2> /dev/null |
          $EGREP "$file_magic_regex" > /dev/null; then
          :
        else
          cat <<EOF 1>&2
          *** Warning: the command libtool uses to detect shared libraries,
          *** $file_magic_cmd, produces output that libtool cannot recognize.
          *** The result is that libtool may fail to recognize shared libraries
          *** as such. This will affect the creation of libtool libraries that
          *** depend on shared libraries, but programs linked with such libtool
          *** libraries will work regardless of this problem. Nevertheless, you
          *** may want to report the problem to your system manager and/or to
          *** bug-libtool@gnu.org
          EOF
        fi
      esac
    fi
  done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
;;
esac)
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  AC_MSG_RESULT($MAGIC_CMD)
else
  AC_MSG_RESULT(no)
AC_DEFUN([AC_PATH_MAGIC],
[AC_PATH_TOOL_PREFIX(${ac_tool_prefix}file, /usr/bin$PATH_SEPARATOR$PATH)
if test -z "$lt_cv_path_MAGIC_CMD"; then
if test -n "$ac_tool_prefix"; then
   AC_PATH_TOOL_PREFIX(file, /usr/bin$PATH_SEPARATOR$PATH)
else
   MAGIC_CMD=:
fi
fi
)
AC_PROG_LD
# ----------
# find the pathname to the GNU or non-GNU linker
AC_DEFUN([AC_PROG_LD],
[AC_ARG_WITH([gnu-ld],
[AC_HELP_STRING([--with-gnu-ld],
[assume the C compiler uses GNU ld @<:@default=no@:>@])],
[test "$withval" = no || with_gnu_ld=yes],
[with_gnu_ld=no])
AC_REQUIRE([LT_AC_PROG_SED])
AC_REQUIRE([AC_PROG_CC])
AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([AC_CANONICAL_BUILD])
ac_prog=ld
if test "$GCC" = yes; then
   # Check if gcc -print-prog-name=ld gives a path.
   AC_MSG_CHECKING([for ld used by $CC])
   case $host in
   *-*-mingw*)
      # gcc leaves a trailing carriage return which upsets mingw
      ac_prog="($CC -print-prog-name=ld) 2>&5 | tr -d \'\015\' ;;
   *)
      ac_prog="($CC -print-prog-name=ld) 2>&5' ;;
   esac
   case $ac_prog in
   # Accept absolute paths.
   [[/* | \?]?[/[/*]*
   re_direlt="/[^[^/]][^/]]*\"/"
   # Canonicalize the pathname of ld
ac_prog='echo $ac_prog| $SED 's%\\%/%g''
while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
  ac_prog='echo $ac_prog| $SED "s%$re_direlt%//%"'
done
  test -z "$LD" && LD="$ac_prog"
"
# If it fails, then pretend we aren't using GCC.
  ac_prog=ld
"
*)
# If it is relative, then search for the first ld in PATH.
  with_gnu_ld=unknown
"
  esac
  elif test "$with_gnu ld" = yes; then
    AC_MSG_CHECKING([for GNU ld])
  else
    AC_MSG_CHECKING([for non-GNU ld])
  fi
  AC_CACHE_VAL(lt_cv_path_LD,
  [if test -z "$LD"; then
    lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
    for ac_dir in $PATH; do
      IFS="$lt_save_ifs"
      test -z "$ac_dir" && ac_dir=.
      if test -f "$ac_dir/$ac_prog" || test -f "$ac_dir/$ac_prog$ac_exeext"; then
        lt_cv_path_LD="$ac_dir/$ac_prog"
        # Check to see if the program is GNU ld. I'd rather use --version,
        # but apparently some variants of GNU ld only accept -v.
        # Break only if it was the GNU/non-GNU ld that we prefer.
        case '"$lt_cv_path_LD" -v 2>&1 </dev/null' in
          *GNU* | *"with BFD"*)
            test "$with_gnu ld" != no && break
          ;;
          *)
            test "$with_gnu ld" != yes && break
          ;;
            esac
        fi)
        LD="$lt_cv_path_LD" # Let the user override the test with a path.
  fi])
  fi
  LD="$lt_cv_path_LD" # Let the user override the test with a path.
fi
  AC_MSG_RESULT($LD)
else
AC_MSG_RESULT(no)
fi
test -z "$LD" && AC_MSG_ERROR([no acceptable ld found in \$PATH])
AC_PROG_LD_GNU
)}# AC_PROG_LD

# AC_PROG_LD_GNU
# ----------
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])]
AC_CACHE_CHECK([if the linker ($LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept -v.
case 'LD -v 2>&1 <(dev/null)
  *GNU* | *'with BFD'*)
lt_cv_prog_gnu_ld=yes
; ;
*)
lt_cv_prog_gnu_ld=no
; ;
esac)
with_gnu_ld=$lt_cv_prog_gnu_ld
)}# AC_PROG_LD_GNU

# AC_PROG_LD_RELOAD_FLAG
# ----------------------
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
lv_cv_ld_reload_flag,
[lv_cv_ld_reload_flag='-r']
reload_flag=$lt_cv_ld_reload_flag
[case $reload_flag in
  "" | " "*)
  *)
  esac)
with_gnu_ld=$lt_cv_prog_gnu_ld
)}# AC_PROG_LD_GNU

with_gnu_ld=$lt_cv_prog_gnu_ld

# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
lv_cv_ld_reload_flag,
[lv_cv_ld_reload_flag='-r']
reload_flag=$lt_cv_ld_reload_flag
[case $reload_flag in
  "" | " "*)
  *)
  esac)
with_gnu_ld=$lt_cv_prog_gnu_ld
)}# AC_PROG_LD_GNU

with_gnu_ld=$lt_cv_prog_gnu.ld

# AC_PROG_LD_GNU
# -------------
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])]
AC_CACHE_CHECK([if the linker ($LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept -v.
case 'LD -v 2>&1 <(dev/null)
  *GNU* | *'with BFD'*)
lt_cv_prog_gnu_ld=yes
; ;
*)
lt_cv_prog_gnu_ld=no
; ;
esac)
with_gnu_ld=$lt_cv_prog_gnu.ld
)}# AC_PROG_LD_GNU

with_gnu_ld=$lt_cv_prog_gnu.ld

# AC_PROG_LD_RELOAD_FLAG
# ----------------------
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
lv_cv_ld_reload_flag,
[lv_cv_ld_reload_flag='-r']
reload_flag=$lt_cv_ld_reload_flag
[case $reload_flag in
  "" | " "*)
  *)
  esac)
with_gnu_ld=$lt_cv_prog_gnu.ld
)}# AC_PROG_LD_GNU
AC_PROG_LD_RELOAD_FLAG

# AC_DEPLIBS_CHECK_METHOD
# -----------------------
# how to check for library dependencies
# -- PORTME fill in with the dynamic library characteristics
AC_DEFUN([AC_DEPLIBS_CHECK_METHOD],
[AC_CACHE_CHECK([how to recognize dependent libraries],
lt_cv_deplibs_check_method,
[lt_cv_file_magic_cmd='$MAGIC_CMD'
lt_cv_file_magic_test_file=
lt_cv_deplibs_check_method='unknown'
# Need to set the preceding variable on all platforms that support
# interlibrary dependencies.
# 'none' -- dependencies not supported.
# 'unknown' -- same as none, but documents that we really don't know.
# 'pass_all' -- all dependencies passed with no checks.
# 'test_compile' -- check by making test program.
# 'file_magic [[regex]]' -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have 'file' or equivalent on your system and you're not sure
# whether 'pass_all' will *always* work, you probably want this one.
case $host_os in
  aix[[4-9]]*)
    lt_cv_deplibs_check_method=pass_all
    ;;
  beos*)
    lt_cv_deplibs_check_method=pass_all
    ;;
  bsdi[[45]]*)
    lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]* bit [[ML]]SB (shared object[dynamic lib]'
    lt_cv_file_magic_cmd=/usr/bin/file -L'
    lt_cv_file_magic_test_file=/shlib/libc.so
    ;;
  cygwin*)
    # func_win32_libid is a shell function defined in ltmain.sh
    lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
    lt_cv_file_magic_cmd='func_win32_libid'
    ;;
  mingw* | pw32*)
    # Base MSYS/MinGW do not provide the 'file' command needed by
# func_win32_libid shell function, so use a weaker test based on 'objdump',
# unless we find 'file', for example because we are cross-compiling.
if ( file / ) >/dev/null 2>&1; then
    lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
    lt_cv_file_magic_cmd='func_win32_libid'
else
    lt_cv_deplibs_check_method='file_magic file format pei*-i386(.*architecture: i386)?'
    lt_cv_file_magic_cmd='$OBJDUMP -f'
fi

;;

darwin* | rhapsody*)
lt_cv_deplibs_check_method=pass_all
;;

freebsd* | dragonfly*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
    case $host_cpu in
        i*86 )
        # Not sure whether the presence of OpenBSD here was a mistake.
        # Let's accept both of them until this is cleared up.
            lt_cv_deplibs_check_method='file_magic (FreeBSD|OpenBSD|DragonFly)/i[[3-9]]86 (compact )?demand paged shared library'
            lt_cv_file_magic_cmd=/usr/bin/file
            lt_cv_file_magic_test_file='echo /usr/lib/libc.so.*'
            ;;
        esac
    else
        lt_cv_deplibs_check_method=pass_all
    fi
    ;;

gnu*)
lt_cv_deplibs_check_method=pass_all
;;

hpx10.20* | hpx11*)
lt_cv_file_magic_cmd=/usr/bin/file
case $host_cpu in
    ia64*)
        lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]|ELF-[0-9][0-9][0-9]]|shared object file - IA64'
        lt_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
        ;;
    hppa*64*)
        lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9]|ELF-[0-9][0-9][0-9]]|shared object file - PA-RISC [0-
        ;;
    esac
    ;;


* \( \text{lt_cv_deplibs_check_method=\text{file\_magic (s\[0-9]\[0-9]\[0-9]\)|PA-RISC\[0-9]\.\[0-9]\]) shared library'}} \)
\( \text{lt_cv_file\_magic\_test\_file=/usr/lib/libc.sl} \)
;
;
esac
;

interix\[[3-9]\]*

# PIC code is broken on Interix 3.x, that's why \.|a not \.|\_pic\.|a here
\( \text{lt_cv_deplibs_check_method=\text{match\_pattern /lib[^/]+(\.so\.|\.a)}$'} \)
;;

irix5* | irix6* | nonstopux*)
case $LD in
  *-32|*"-32 " ) libmagic=32-bit;;
  *-n32|*"-n32 " ) libmagic=N32;;
  *-64|*"-64 " ) libmagic=64-bit;;
  *) libmagic=never-match;;
esac
\( \text{lt_cv_deplibs_check_method=pass\_all} \)
;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
\( \text{lt_cv_deplibs_check_method=pass\_all} \)
;;

newos6*)
\( \text{lt_cv_deplibs_check_method=\text{file\_magic ELF [0-9-][0-9]*-bit \[ML\]SB (executable|dynamic lib')}} \)
\( \text{lt_cv_file\_magic\_cmd=/usr/bin/file} \)
\( \text{lt_cv_file\_magic\_test\_file=/usr/lib/libnls.so} \)
;;

nto-qnx*)
\( \text{lt_cv_deplibs_check_method=unknown} \)
;;

openbsd*)
if test -z "\(\text{echo __ELF__ | }$CC\ -E \ - | grep __ELF__\) > /dev/null; then
\( \text{lt_cv_deplibs_check_method=\text{match\_pattern /lib[^/]+(\.so\.[0-9]+|\.a)}$'} \)
else
\( \text{lt_cv_deplibs_check_method=\text{match\_pattern /lib[^/]+(\.so\.|\_pic\.|a)}$'} \)
fi
;;

---

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else
    lt_cv_deplibs_check_method='match_pattern /lib[\^/]+\.[0-9]+\.[0-9]+/_pic\.[a]$'
fi
;;

osf3* | osf4* | osf5*)
lt_cv_deplibs_check_method=pass_all
;;

dos*)
lt_cv_deplibs_check_method=pass_all
;;
solaris*)
lt_cv_deplibs_check_method=pass_all
;;
sysv4 | sysv4,3*)
case $host_vendor in
  motorola)
    lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (shared object|dynamic lib) M[[0-9]][[0-9]]* Version [[0-9]]'
    lt_cv_file_magic_test_file='echo /usr/lib/libc.so*'
    ;;
  ncr)
    lt_cv_deplibs_check_method=pass_all
    ;;
  sequent)
    lt_cv_file_magic_cmd='/bin/file'
    lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB (shared object|dynamic lib)'
    ;;
  sni)
    lt_cv_file_magic_cmd='/bin/file'
    lt_cv_deplibs_check_method="file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB dynamic lib"
    lt_cv_file_magic_test_file=/lib/libc.so
    ;;
  siemens)
    lt_cv_deplibs_check_method=pass_all
    ;;
  pc)
    lt_cv_deplibs_check_method=pass_all
    ;;
  esac
  ;;
sysv5* | sco3,2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
lt_cv_deplibs_check_method=pass_all
;;
esac
]
file_magic_cmd=$lt_cv_file_magic_cmd
deplibs_check_method=$lt_cv_deplibs_check_method
test -z "$deplibs_check_method" && deplibs_check_method=unknown
]

# AC_DEPLIBS_CHECK_METHOD

# AC_PROG_NM
# ----------
# find the pathname to a BSD-compatible name lister
AC_DEFUN([AC_PROG_NM],
[AC_CACHE_CHECK([for BSD-compatible nm], lt_cv_path_NM,
if test -n "$NM"; then
  # Let the user override the test.
  lt_cv_path_NM="$NM"
else
  lt_nm_to_check="${ac_tool_prefix}nm"
  if test -n "${ac_tool_prefix}" && test "$build" = "$host"; then
    lt_nm_to_check="${lt_nm_to_check} nm"
  fi
for lt_tmp_nm in $lt_nm_to_check; do
  lt_save_ifs="IFS"; IFS=$PATH_SEPARATOR
  for ac_dir in $PATH /usr/ccs/bin/elf /usr/ccs/bin /usr/ucb /bin; do
    IFS="$lt_save_ifs"
    test -z "$ac_dir" && ac_dir=.
    tmp_nm="$ac_dir/$lt_tmp_nm"
    if test -f "$tmp_nm" || test -f "$tmp_nm$ac_exeext" ; then
      # Check to see if the nm accepts a BSD-compat flag.
      # Adding the 'sed 1q' prevents false positives on HP-UX, which says:
      # nm: unknown option "B" ignored
      # Tru64's nm complains that /dev/null is an invalid object file
      case ""$tmp_nm" -B /dev/null 2>&1 | sed '1q" in
      */dev/null* | *Invalid file or object type*"
      lt_cv_path_NM="$tmp_nm -B"
      break
    ;;
  esac
case "$tmp_nm" -p /dev/null 2>&1 | sed '1q in
*/dev/null* | *Invalid file or object type*"
lt_cv_path_NM="$tmp_nm -p"
break
    ;;
  esac
)}
:;
esac
fi
done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
fi)
NM="$lt_cv_path_NM"
)}# AC_PROG_NM

# AC_CHECK_LIBM
# ---------------
# check for math library
AC_DEFUN([AC_CHECK_LIBM],
[AC_REQUIRE([AC_CANONICAL_HOST])dnl
LIBM=
case $host in
  *-*-beos* | *-*-cygwin* | *-*-pw32* | *-*-darwin*)
    # These system don't have libm, or don't need it
    ;;
  *-ncr-sysv4.3*)
    AC_CHECK_LIB(mw, _mwvalidcheckl, LIBM="-lmw")
  AC_CHECK_LIB(m, cos, LIBM="$LIBM -lm")
  ;;
  *)
    AC_CHECK_LIB(m, cos, LIBM="-lm")
  ;;
esac
)}# AC_CHECK_LIBM

# AC_LIBLTLTLCONVENIENCE([DIRECTORY])
# -----------------------------------
# sets LIBLTLTD to the link flags for the libltltdl convenience library and
# LTDLINCL to the include flags for the libltltdl header and adds
# --enable-ltdl-convenience to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# it is assumed to be 'libltltd'. LIBLTDL will be prefixed with
# '$[top_builddir]' and LTDLINCL will be prefixed with '$[top_srcdir]'/
# (note the single quotes!). If your package is not flat and you're not
# using automake, define top_builddir and top_srcdir appropriately in
# the Makefiles.
AC_DEFUN([AC_LIBLTLTLCONVENIENCE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
case $enable_ltdl_convenience in
  no) AC_MSG_ERROR([this package needs a convenience libltltd]) ;;
enable_ltdl_convenience=yes
ac_configure_args="$ac_configure_args --enable-ltdl-convenience" ::
esac
LIBLTDL="$\{top_builddir\}/libltdlc.la"
LTDLINCL="-I$\{top_srcdir\}/libltdl"#
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
)

# AC_LIBLTDL_INSTALLABLE([DIRECTORY])
# -------------------------------
# sets LIBLTDL to the link flags for the libltdl installable library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-install to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# and an installed libltdl is not found, it is assumed to be 'libltdl'.
# LIBLTDL will be prefixed with '${top_builddir}/' and LTDLINCL with
# '${top_srcdir}/' (note the single quotes!). If your package is not
# flat and you're not using automake, define top_builddir and top_srcdir
# appropriately in the Makefiles.
# In the future, this macro may have to be called after AC_PROG_LIBTOOL.
AC_DEFUN([AC_LIBLTDL_INSTALLABLE],
[AC_BEFORE([\$0],[AC_LIBTOOL_SETUP]) dnl
AC_CHECK_LIB(ltdl, lt_dlinit,
[test x"\$enable_ltdl_install" != xyes && enable_ltdl_install=no],
[if test x"\$enable_ltdl_install" = xno; then
   AC_MSG_WARN([libltdl not installed, but installation disabled])
else
   enable_ltdl_install=yes
fi
])
if test x"\$enable_ltdl_install" = x"yes"; then
   ac_configure_args="$ac_configure_args --enable-ltdl-install"
LIBLTDL="$\{top_builddir\}/libltdlc.la"
LTDLINCL="-I$\{top_srcdir\}/libltdl"
else
   ac_configure_args="$ac_configure_args --enable-ltdl-install=no"
LIBLTDL="-lltdl"
LTDLINCL=
fi
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
)

# AC_LIBTOOL_CXX
# -----------
# enable support for C++ libraries
AC_DEFUN([AC_LIBTOOL_CXX],
[AC_REQUIRE([LT_AC_LANG_CXX])]
)## AC_LIBTOOL_CXX

# _LT_AC_LANG_CXX
# ------------
AC_DEFUN([_LT_AC_LANG_CXX],
[AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([LT_AC_PROG_CXXCPP])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}CXX])
])## _LT_AC_LANG_CXX

# _LT_AC_PROG_CXXCPP
# --------------
AC_DEFUN([_LT_AC_PROG_CXXCPP],
[AC_REQUIRE([AC_PROG_CXX])
if test -n "SCXX" &;& ( test "XSCXX" != "Xno" &;&
   ( test "XSCXX" = "Xg++" &;& 'g++ -v >/dev/null 2>&1' ) ||
   (test "XSCXX" != "Xg++")) ; then
AC_PROG_CXXCPP
fi
])## _LT_AC_PROG_CXXCPP

# AC_LIBTOOL_F77
# ------------
# enable support for Fortran 77 libraries
AC_DEFUN([AC_LIBTOOL_F77],
[AC_REQUIRE([LT_AC_LANG_F77])
])## AC_LIBTOOL_F77

# _LT_AC_LANG_F77
# ------------
AC_DEFUN([_LT_AC_LANG_F77],
[AC_REQUIRE([AC_PROG_F77])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}F77])
])## _LT_AC_LANG_F77

# AC_LIBTOOL_GCJ
# ------------
# enable support for GCJ libraries
AC_DEFUN([AC_LIBTOOL_GCJ],
[AC_REQUIRE([LT_AC_LANG_GCJ])
])## AC_LIBTOOL_GCJ
# _LT_AC_LANG_GCJ
# ---------------
AC_DEFUN(_LT_AC_LANG_GCJ),
[AC_PROVIDE_IFELSE([AC_PROG_GCJ],[]),
[AC_PROVIDE_IFELSE([A][M_PROG_GCJ],[]),
[AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],[]),
  ifdef([AC_PROG_GCJ],[AC_REQUIRE([AC_PROG_GCJ])],
  ifdef([A][M_PROG_GCJ],[AC_REQUIRE([A][M_PROG_GCJ])],
  AC_REQUIRE([A][C_PROG_GCJ][M_PROG_GCJ]))])])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}GCJ])
)# _LT_AC_LANG_GCJ

# AC_LIBTOOL_RC
# ------------
# enable support for Windows resource files
AC_DEFUN([AC_LIBTOOL_RC],
[AC_REQUIRE([LT_AC_PROG_RC])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}RC])
])# AC_LIBTOOL_RC

# AC_LIBTOOL_LANG_C_CONFIG
# ------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_C_CONFIG], [LT_AC_LANG_C_CONFIG])
AC_DEFUN([LT_AC_LANG_C_CONFIG],
[lt_save_CC="$CC"
AC_LANG_PUSH(C)

# Source file extension for C test sources.
ac_ext=c

# Object file extension for compiled C test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(){return(0);}'

_LT_AC_SYS_COMPILER
# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_SYS_LIB_STRIP
AC_LIBTOOL_DLOPEN_SELF

# Report which library types will actually be built
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([Scan_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
  aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
  archive_cmds="$archive_cmds-$RANLIB \$lib"
  postinstall_cmds="$RANLIB $lib"
fi
;;
aix[4-9]*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
test "$enable_shared" = yes && enable_static=no
fi
;;
esac
AC_MSG_RESULT([enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([enable_static])

AC_LIBTOOL_CONFIG($1)
AC_LANG_POP
CC="$lt_save_CC"
)# AC_LIBTOOL_LANG_C_CONFIG

# AC_LIBTOOL_LANG_CXX_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_CXX_CONFIG], [_LT_AC_LANG_CXX_CONFIG(CXX)])
AC_DEFUN([_LT_AC_LANG_CXX_CONFIG],
[AC_LANG_PUSH(C++)
AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Dependencies to place before and after the object being linked:
_LT_AC_TAGVAR(predep_objects, $1)=
_LT_AC_TAGVAR(postdep_objects, $1)=
_LT_AC_TAGVAR(predeps, $1)=
_LT_AC_TAGVAR(postdeps, $1)=
_LT_AC_TAGVAR(compiler_lib_search_path, $1)=
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=

# Source file extension for C++ test sources.
ac_ext=cpp

# Object file extension for compiled C++ test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[[[]]]) { return(0); }'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "${lt_cv_prog_gnu_ldcxx+set}"; then
  lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_ldcxx
else
  $as_unset lt_cv_prog_gnu_ld
fi
if test -n "${lt_cv_path_LDCXX+set}"; then
  lt_cv_path_LD=$lt_cv_path_LDCXX
else
  $as_unset lt_cv_path_LD
fi
test -z "${LDCXX+set}" || LD=$LDCXX
CC=${CXX-"c++"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME($(compiler))

# We don't want -fno-exception when compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'
else
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=
fi
if test "$GXX" = yes; then
# Set up default GNU C++ configuration

AC_PROG_LD

# Check if GNU C++ uses GNU ld as the underlying linker, since the
# archiving commands below assume that GNU ld is being used.
if test "$with_gnu_ld" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags $wl-soname $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags $wl-soname $wl$soname $wl,retain-symbols-file $wl$export_symbols -o $lib'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
else
    with_gnu_ld=no
    wlarc=
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L""
GXX=no
with_gnu ld=no
wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
case $host_os in
 aix3*)
   # FIXME: insert proper C++ library support
   _LT_AC_TAGVAR(ld_shlibs, $1)=no
   ;;
   aix([4-9])*)
   if test "$host_cpu" = ia64; then
     # On IA64, the linker does run time linking by default, so we don't
     # have to do anything special.
     aix_use_runtimelinking=no
     exp_sym_flag='-Bexport'
     no_entry_flag=""
   else
     aix_use_runtimelinking=no
   fi
   # Test if we are trying to use run time linking or normal
   # AIX style linking. If -brtl is somewhere in LDFLAGS, we
   # need to do runtime linking.
   case $host_os in
     aix4.[23])
     aix4.[23].*|aix([5-9])*)
     for ld_flag in $LDFLAGS; do
       case $ld_flag in
         *-brtl*)
         aix_use_runtimelinking=yes
       break
       ;;
     esac
done
   ;;
   esac
   exp_sym_flag='-bexport'
   no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.
if test "$GXX" = yes; then
  case $host_os in
    aix4.[012].*)
      # We only want to do this on AIX 4.2 and lower, the check
      # below for broken collect2 doesn't work under 4.3+
      collect2name='${CC} -print-prog-name=collect2'
      if test -f "$collect2name" &&
        strings "$collect2name" | grep resolve_lib_name >/dev/null
      then
        # We have reworked collect2
        :
      else
        # We have old collect2
        _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
        # It fails to find uninstalled libraries when the uninstalled
        # path is not listed in the libpath. Setting hardcode_minus_L
        # to unsupported forces relinking
        _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
        _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
      fi
  esac
else
  # not using gcc
  if test "$host_cpu" = ia64; then
    # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
    # chokes on -Wl,-G. The following line is correct:
    shared_flag='-G'
  else
    if test "$aix_use_runtimelinking" = yes; then
      shared_flag="$shared_flag "$wl"-G"
    fi
    else
      # It seems that -bexpall does not export symbols beginning with
      # underscore (_), so it is better to generate a list of symbols to export.
  fi
fi
if test "${aix_use_runtimelinking}" = yes; then
    # Warning - without using the other runtime loading flags (-brtl),
    # -berok will link without error, but may produce a broken library.
    _LT_AC_TAGVAR(always_export_symbols, $1)=yes
    # Determine the default libpath from the value encoded in an empty executable.
    _LT_AC_SYS_LIBPATH_AIX
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wl\-blibpath:\${libdir}:\$aix_libpath"

    _LT_AC_TAGVAR(archive_expSYM_cmds, $1)="$CC\" -o $output_objdir/$soname $libobjs $deplibs
            '"$wl\$no_entry_flag" $compiler_flags $shared_flag' if test "x${allow_undefined_flag}" != "x"; then echo
            "$wl\${allow_undefined_flag}"; else :; fi
        "$wl\$exp_sym_flag:\$export_symbols $shared_flag"
    else
        # Determine the default libpath from the value encoded in an empty executable.
        _LT_AC_SYS_LIBPATH_AIX
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wl\-R $libdir:/usr/lib:/lib"
        _LT_AC_TAGVAR(archive_expSYM_cmds, $1)="$CC $shared_flag\" -o $output_objdir/$soname $libobjs $deplibs
            '"$wl\$no_entry_flag" $compiler_flags ${wl}\$allow_undefined_flag\n
        "$wl\$exp_sym_flag:\$export_symbols\" else
            # This is similar to how AIX traditionally builds its shared libraries.
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs $compiler_flags $\{wl\}\$soname -o $lib
            $output_objdir/$libname$release.a $output_objdir/$soname'
        fi
    fi
  fi
fi
}

beos*)
if LSL --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
  # support --undefined. This deserves some investigation. FIXME
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -nostart $libobjs $deplibs $compiler_flags $\{wl\}\$soname
  $output_objdir/$libname$release.a $output_objdir/$soname' -o $lib
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

---

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chorus*)
case $cc_basename in
 *)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;
  esac
  ;

cygwin* | mingw* | pw32*)
  # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
  # as there is no search path for DLLs.
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  _LT_AC_TAGVAR(always_export_symbols, $1)=no
  _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
  ;
if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $output_objdir/$soname $[wl]--enable-auto-image-base -Xlinker --out-implib
-Xlinker $lib'
  # If the export-symbols file already is a .def file (1st line
  # is EXPORTS), use it as is; otherwise, prepend...
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)=if test "x$SED 1q $export_symbols" = xEXPORTS; then
  cp $export_symbols $output_objdir/$soname.def;
  else
    echo EXPORTS > $output_objdir/$soname.def;
    cat $export_symbols >> $output_objdir/$soname.def;
    fi
  $CC -shared -nostdlib $output_objdir/$soname.def $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags -o $output_objdir/$soname $[wl]--enable-auto-image-base -Xlinker --out-implib
-Xlinker $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;
  ;
  ;
  darwin* | rhapsody*)
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_automatic, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
  _LT_AC_TAGVAR(allow_undefined_flag, $1)="$lt_dar_allow_undefined"
if test "$GXX" = yes ; then
  output.verbose_link_cmd='echo'
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs
"
\$compiler_flags -install_name \$rpath/\$soname \$verstring \$_lt_dar_single_mod$[\$_lt_dsymutil]"

\_LT_AC_TAGVAR(module_cmds, $1)="$CC \allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs \$compiler_flags[\$_lt_dsymutil]"

\_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's:^,:^,' < \$export_symbols > \
\$output_objdir/\$[libname]-symbols.expsym-\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring \
\$_lt_dar_single_mod$[\$_lt_dar_export_syms]$[\$_lt_dsymutil]"

\_LT_AC_TAGVAR(module_cmds, $1)="$CC \allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring \
\$_lt_dar_single_mod$[\$_lt_dar_export_syms]$[\$_lt_dsymutil]"

if test "$lt_cv_apple_cc_single_mod" != "yes"; then
\_LT_AC_TAGVAR(archive_cmds, $1)="$CC -r -keep_private_externs -nostdlib -o \$[lib]-master.o \
\$libobjs-\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$[lib]-master.o \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring\$_lt_dar_single_mod$[\$_lt_dar_export_syms]$[\$_lt_dsymutil]"

\_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's:^,:^,' < \$export_symbols > \
\$output_objdir/\$[libname]-symbols.expsym-\$CC -r -keep_private_externs -nostdlib -o \$[lib]-master.o \
\$libobjs-\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$[lib]-master.o \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring\$_lt_dar_single_mod$[\$_lt_dar_export_syms]$[\$_lt_dsymutil]"

fi
else
  if case $cc_basename in
  xlc*)
    output_verbose_link_cmd='echo'
  \_LT_AC_TAGVAR(archive_cmds, $1)='$CC -qmkshrobj \$[wl]-single_module \$allow_undefined_flag -o \$lib \$libobjs \$deplibs \$compiler_flags \$[wl]-install_name \$rpath/\$soname \$xlcverstring' 
  \_LT_AC_TAGVAR(module_cmds, $1)='$CC \allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs \$compiler_flags' 
  \# Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
  \_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed -e "s:^,:^,' < \$export_symbols > \$output_objdir/\$libname-symbols.expsym-\$CC -qmkhrobj \$[wl]-single_module \$allow_undefined_flag -o \$lib \$libobjs \$deplibs \$compiler_flags \$[wl]-install_name \$rpath/\$soname \$xlcverstring-nmedit -s \$output_objdir/\$libname-symbols.expsym \$[lib]'

  \_LT_AC_TAGVAR(module_cmds, $1)="sed -e "s:^,:^,' < \$export_symbols > \$output_objdir/\$libname-symbols.expsym-\$CC \allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs \$compiler_flags-nmedit -s \$output_objdir/\$libname-symbols.expsym \$[lib]'

  ;; *
  \_LT_AC_TAGVAR(ld_shlibs, $1)=no
  esac
fi
::
::
dgux*)
  case $cc_basename in
  ec++*)
  \# FIXME: insert proper C++ library support
  \_LT_AC_TAGVAR(ld_shlibs, $1)=no
ghcx*)
# Green Hills C++ Compiler
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
esac
::
freebsd[*]
# C++ shared libraries reported to be fairly broken before switch to ELF
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
freebsd-elf[*]
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
::
freebsd* | dragonfly*)
# FreeBSD 3 and later use GNU C++ and GNU ld with standard ELF
# conventions
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
::
gnu*)
::
hpux9*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
# but as the default
# location of the library.

case $cc_basename in
CC*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
aCC*)
_LT_AC_TAGVAR(archive_cmds, $1)='${rm $output_objdir/$soname~$CC -b $wl$install_libdir -o'
output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~test
$output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.

output_verbose_link_cmd='templist=('($CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "\[[\-]\]L"; list=""; for z
in templist; do case $z in
in conftest.$objext) list="$list $z";; *.$objext) ;; *) list="$list $z";; esac; done; echo $list'

if test "$GXX" = yes; then
  _LT_AC_TAGVAR(archive_cmds, $1)='${wl}rm $output_objdir/$soname~$CC -shared -nostdlib -fPIC ${wl}+b
  ${wl}$install_libdir -o $output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects
  $compiler_flags -test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
esac

hpux10*|hpux11*)
if test $with_gnu_ld = no; then
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  case $host_cpu in
    hppa*64*|ia64*) ;;
    *)
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    ;;
    esac
fi
case $host_cpu in
  hppa*64*|ia64*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;
    *)
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
    # but as the default
    # location of the library.
    ;;
    esac
  case $cc_basename in
    CC*)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
case $host_cpu in
  hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -b ${wl}+h ${wl}$soname -o $lib $predep_objects $libobjs
      $deplibs $postdep_objects $compiler_flags'
  ;;
  ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -b ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib
      $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
  ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -b ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib
      $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
  ;;
esac

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=('$(CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "-L"'; list=""; for z in
  $templist; do case $z in
    conftest.$objext) list="list $z";;
    *.$objext) list="list $z";;
    *) list="list $z";; esac; done; echo $list' 
  ;;
  *)
   if test "$GXX" = yes; then
    if test $with_gnu_1d = no; then
      case $host_cpu in
        hppa*64*)
          _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname -o $lib
            $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
        ia64*)
          _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname
            ${wl}+nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
        *)
          _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname
            ${wl}+b ${wl}$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
      esac
    fi
  else
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
# Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
# Instead, shared libraries are loaded at an image base (0x10000000 by
# default) and relocated if they conflict, which is a slow very memory
# consuming and fragmenting process. To avoid this, we pick a random,
# 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
# time. Moving up from 0x10000000 also allows more sbrk(2) space.

_LT_AC_TAGVAR(archive_cmds, $1)!='CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$Soname $[wl]--image-base,'expr $(RANDOM-$$$) % 4096 / 2 * 262144 + 1342177280' -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_,." $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$soname $[wl]--retain-symbols-file,$output_objdir/$soname.expsym $[wl]--image-base,'expr $(RANDOM-$$$) % 4096 / 2 * 262144 + 1342177280' -o $lib'

irix5* | irix6*)
case $cc_basename in
  CC*)
    # SGI C++
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared -all -multigot $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -o $lib'
    _LT_AC_TAGVAR(old_archive_cmds, $1)='CC -ar -WR,-u -o $oldlib $oldobjs'
    # Archives containing C++ object files must be created using
    # "CC -ar", where "CC" is the IRIX C++ compiler. This is
    # necessary to make sure instantiated templates are included
    # in the archive.
    _LT_AC_TAGVAR(old_archive_cmds, $1)='CC -ar -WR,-u -o $oldlib $oldobjs'

  *)
if test "$GXX" = yes; then
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared -nostdlib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $[wl] $soname 'test -n "$verstring" && echo $[wl]-set_version $[wl]-verstring' $[wl]-update_registry $[wl] $[output_objdir]/so_locations -o $lib'
    else
      _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared -nostdlib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $[wl] $soname 'test -n "$verstring" && echo $[wl]-set_version $[wl]-verstring' -o $lib'
  fi
fi

fi

::
esac
::
interix([[3-9]]*)

_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

# Archives containing C++ object files must be created using
# "CC -ar", where "CC" is the IRIX C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='CC -ar -WR,-u -o $oldlib $oldobjs'
::

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# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.

_LT_AC_TAGVAR(archive_cmds, $1)="/tempext=\""\$shared_ext \"\$SSED -e \"\$s\\{\^[0-9A-Za-z(){}]\}\\\\\/g\"\"; templib=\"\$lib \"\$SSED -e \"\$s\\{\tempext\}\..*/.so/\"\"; SCC $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags --soname $soname -o \"$templib\"; mv \"$templib\" $lib'

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="/tempext=\""\$shared_ext \"\$SSED -e \"\$s\\{\^[0-9A-Za-z(){}]\}\\\\\/g\"\"; templib=\"\$lib \"\$SSED -e \"\$s\\{\tempext\}\..*/.so/\"\"; SCC $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags --soname $soname -o \"$templib\" $wl-retain-symbols-file,$export_symbols; mv \"$templib\" $lib'

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.

output_verbose_link_cmd="/templist="$CC \"$CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1 \" | grep \"ld\"; rm -f libconftest$shared_ext; list="\"; for z in Templist; do case $z in conftest.$objext) list="$list $z";; *.$objext) list="$list $z"; esac; done; echo $list'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="/\$rlpath $wl$libdir'

_LT_AC_TAGVAR(hardcode_libdir_separator, $1)="/:

case $cc_basename in
KCC*)

with_gnu_ld=yes
# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case 'SCC -V 2>&1' in
"Version 7."*)

# Intel C++

with_gnu_ld=yes
# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case 'SCC -V 2>&1' in
"Version 7."*)

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.

_LT_AC_TAGVAR(old_archive_cmds, $1)="/\$CC -Bstatic -$o $oldlib $oldobjs'

::
icpc*)

# Intel C++

with_gnu_ld=yes
# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case 'SCC -V 2>&1' in
"Version 7."*)
_LT_AC_TAGVAR(archive_cmds, $1)="/CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname -o $lib"

_ LT AC_TAGVAR(archive_expsym_cmds, $1)="/CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"

; ;

;;

*)  # Version 8.0 or newer

tmp_idyn=
case $host_cpu in
  ia64*) tmp_idyn=' -i_dynamic';;
esac

_LT_AC_TAGVAR(archive_cmds, $1)="/CC -shared""$tmp_idyn"" $libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname -o $lib"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="/CC -shared""$tmp_idyn"" $libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"

; ;
esac

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'

_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive$convenience ${wl}--no-whole-archive'

; ;

pgCC* | pgcpp*)

  # Portland Group C++ compiler

_LT_AC_TAGVAR(archive_cmds, $1)="$[wl]-rpath,$libdir"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="/CC -shared $pic_flag $predep_objects $libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname -o $lib"

_LT_AC_TAGVAR(archive_cmds, $1)="/CC -shared $pic_flag $predep_objects $libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname -o $lib"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="/CC -shared $pic_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'

_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
what "hidden" libraries, object files and flags are used when
linking a shared library.

There doesn't appear to be a way to prevent this compiler from
explicitly linking system object files so we need to strip them
from the output so that they don't get included in the library
dependencies.

```
output_verbose_link_cmd='templist="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld""; templist='echo $templist | $SED "s/\(^.*ld.*\)\( \.*ld \.*$/\1/"; list=""; for z in $templist; do case $z in
conftest.$objext);; *) list="$list $z"; esac; done; echo "$list"
;; *)
```
case '$CC -V 2>&1 | sed 5q' in

*Sun\ C*)

# Sun C++ 5.9

```
_LT_AC_TAGVAR(no_undefined_flag, $1)="-zdefs"
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $\{wl\}-retain-symbols-file $\{wl\}$export_symbols"
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-R$libdir"
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="--whole-archive\new_convenience=; for conv in $\{wl\}\new_convenience\"; do test -z "$conv" || new_convenience="$new_convenience,$conv"; done; $echo "$\new_convenience\" $\{wl\}--no-whole-archive"
```

# Not sure whether something based on

```
output_verbose_link_cmd='echo'
```

# Archives containing C++ object files must be created using
"CC -xar", where "CC" is the Sun C++ compiler. This is
necessary to make sure instantiated templates are included
in the archive.

```
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -xar -o $oldlib $oldobjs"
```

# FIXME: insert proper C++ library support

```
_LT_AC_TAGVAR(ld_shlibs, $1)=no
```

# FIXME: insert proper C++ library support

```
_LT_AC_TAGVAR(ld_shlibs, $1)=no
```
mvs*)
  case $cc_basename in
    cxx*)
# FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  *)
# FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  esac
  ;;
netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $linker_flags"
    wlaarc=
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-Rslibdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    fi
# Workaround some broken pre-1.5 toolchains
output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep conftest.$objext | $SED -e "s:__lgcc__-lc -lgcc::"
  ;;
  openbsd2*)
# C++ shared libraries are fairly broken
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  openbsd*)
  if test -f /usr/libexec/ld.so; then
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $linker_flags -o $lib"
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="${wl}-rpath,$libdir"
    if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $lib"
      _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="${wl}-E"
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience "$wlarc"--no-whole-archive"
      fi
    output_verbose_link_cmd='echo'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
case $cc_basename in
  KCC*)
  # Kuck and Associates, Inc. (KAI) C++ Compiler

  # KCC will only create a shared library if the output file
  # ends with ".so" (or ".sl" for HP-UX), so rename the library
  # to its proper name (with version) after linking.

  _LT_AC_TAGVAR(archive_cmds, $1)="tempext="echo $shared_ext | $SED -e "s/\(([^0-9A-Za-z{}])\)/\\\1/g";
templib="echo $lib | $SED -e "s/$\{tempext\}[^./].*/.so/""; $CC $predep_objects $libobjs $deplibs $postdep_objects
  $compiler_flags --soname $soname -o $templib; mv $templib $lib"

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath,$libdir"
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

  # Archives containing C++ object files must be created using
  # "CC -Bstatic", where "CC" is the KAI C++ compiler.
  _LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -Bstatic -o $oldlib $oldobjs"

::
  RCC*)
  # Rational C++ 2.4.1
  # FIXME: insert proper C++ library support

::
  cxx*)
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=" -expect_unresolved $CCCCCC\"

  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
  $postdep_objects $compiler_flags $soname $soname 'test -n "$verstring" && echo $soname -update_registry $(output_objdir)/so_locations -o $lib"

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $(output_objdir)/so_locations -o $lib"

  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

::
  # Commands to make compiler produce verbose output that lists
  # what "hidden" libraries, object files and flags are used when
  # linking a shared library.
  #
  # There doesn't appear to be a way to prevent this compiler from
  # explicitly linking system object files so we need to strip them
  # from the output so that they don't get included in the library
  # dependencies.

  output_verbose_link_cmd='templist="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:"
  templist="/templist | $SED "s/\(.*ld.*\)//.*/\1/""
  for z in $templist; do case $z in
    conftest.$objext) list="$list $z";; *.objext)) list="$list $z"; esac; done; echo $list"
  ;;}

::
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='-$wl-expect_unresolved '
  _LT_AC_TAGVAR(archive_cmds, $1)="CC -shared -nostdlib $allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $wl-set_version $wl-$verstring $wl-set_version $wl-$verstring $wl-update_registry $wl-output_objdir/so_locations -o $lib"

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath,$libdir"
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "^L""

else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;

osf4* | osf5*)
case $cc_basename in
  KCC*)
    # Kuck and Associates, Inc. (KAI) C++ Compiler
    # KCC will only create a shared library if the output file
    # ends with ".so" (or ".sl" for HP-UX), so rename the library
    # to its proper name (with version) after linking.
    _LT_AC_TAGVAR(archive_cmds, $1)="tempext='echo $shared_ext | $SED -e 's/\([^()0-9A-Za-z{\}]/\1/;templib='echo $lib | $SED -e 's/$\{tempext\}.*$\{so\}/.so/" ; $CC $predep_objects $libobjs $deplibs $postdep_objects
    $compiler_flags --soname $soname -o $templib
    mv $templib $lib"

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath,$libdir"
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

    # Archives containing C++ object files must be created using
    # the KAI C++ compiler.
    _LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -o $oldlib $oldobjs"
      ::
      RCC*)
      # FIXME: insert proper C++ library support
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    cxx*)
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='-$expect_unresolved '
    _LT_AC_TAGVAR(archive_cmds, $1)="CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $wl-set_version $wl-output_objdir/so_locations -o $lib"

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath,$libdir"
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

    # Archives containing C++ object files must be created using
    # the KAI C++ compiler.
    _LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -o $oldlib $oldobjs"
      ::
      RCC*)
      # FIXME: insert proper C++ library support
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    cxx*)
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='-$expect_unresolved '
    _LT_AC_TAGVAR(archive_cmds, $1)="CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $wl-set_version $wl-output_objdir/so_locations -o $lib"

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath,$libdir"
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
$postdep_objects $compiler_flags -msym -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib'

_LT_AC_TAGVAR(archive_expsym_cmds, $1)=for i in 'cat $export_symbols'; do printf "%s %s
" exported_symbol "$i" >> $lib.exp; done~
  echo "-hidden">> $lib.exp~~

$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -soname $soname -Wl,input -$Wl,$lib.exp 'test -n "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib~
  $rm $lib.exp'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:";
  templist='echo $templist | $SED "s/(^.*ld.*\(.*ld.*\)/\1/"; list=""; for z in $templist; do case $z in
    conftest.$objext) list="$list $z";; *.objext);; *) list="$list $z";; esac; done; echo $list'
  ;;
  *)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)= ${wl}-expect_unresolved ${wl}

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=$[wl]-rpath $[wl]$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi

else
  #FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

;;
esac
;;
psos*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
sunos4*)
case $cc basename in
   CC*)
# Sun C++ 4.x
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
lcc*)
# Lucid
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;; *
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;; esac
;
;
solaris*)
case $cc basename in
   CC*)
# Sun C++ 4.2, 5.x and Centerline C++
   _LT_AC_TAGVAR(archive_cmds need lc,$1)=yes
   _LT_AC_TAGVAR(no undefined flag, $1)='-zdefs'
   _LT_AC_TAGVAR(archive_cmds, $1)=$CC -G${allow undefined flag} -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
   _LT_AC_TAGVAR(archive expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e "s/(.*\)/\1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~$CC -G${allow undefined flag} ${wl}-M ${wl}$lib.exp -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp'
   _LT_AC_TAGVAR(hardcode_libdir flag spec, $1)=˓→R$libdir'
   _LT_AC_TAGVAR(hardcode_shlibpath var, $1)=no
   case $host_os in
      solaris2.[0-5] | solaris2.[0-5].*) ;; *
   esac
# The compiler driver will combine and reorder linker options,
# but understands 'z linker_flag'.
# Supported since Solaris 2.6 (maybe 2.5.1?)
_LT_AC_TAGVAR(whole archive flag spec, $1)='-z allextract$convenience -z defaultextract'
;;
esac
_LT_AC_TAGVAR(link_all deplibs, $1)=yes

output verbose link cmd='echo'
# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)="CC -xar -o $oldlib $oldobjs'
;
  gcx")
# Green Hills C++ Compiler
_LT_AC_TAGVAR(archive_cmds, $1)="/CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags $[wl]-h $wl$soname -o $lib'

# The C++ compiler must be used to create the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)="/CC $LDFLAGS -archive -o $oldlib $oldobjs'
;
  *
# GNU C++ compiler with Solaris linker
if test "SGXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(no_undefined_flag, $1)=' $wl-z $wl-defs'
  if $CC --version | grep -v '^2.7' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)="/CC -shared -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="/echo "local: *;\}" >> $lib.exp~$echo "global: *" >> $lib.exp~$CC -shared -nostdlib $wl-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -$rm $lib.exp'
  else
    # g++ 2.7 appears to require '-G' NOT '-shared' on this
    # platform.
    _LT_AC_TAGVAR(archive_cmds, $1)="/CC -G -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="/echo "local: *;\}" >> $lib.exp~$echo "global: *" >> $lib.exp~$CC -G -nostdlib $wl-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -$rm $lib.exp'
  fi

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $wl$libdir'

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="/CC $CFLAGS -v conftest.$objext 2>&1 | grep "$-L""
case $host_os in
  solaris2.[0-5]|solaris2.[0-5].*):;
*)
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z $wlallellexport$convenience $wl-z $wldefaultextract'
;;
esac
fi
;;
esac
::
sysv4*uw2* | sysv5OpenUNIX* | sysvUnixWare7.[01][01][01]* | unixware7* | sco3.2v5.0.[024]*)
  _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  runpath_var='LD_RUN_PATH'

  case $cc_basename in
    CC*)
      _LT_AC_TAGVAR(archive_cmds, $1)='${CC -G $wl-h,$soname -o $lib $libobjs $deplib $compiler_flag}'
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)='${CC -G $wl-Bexport:$export_symbols $wl-h,$soname -o $lib $libobjs $deplib $compiler_flag}'
      ;;
    *)
      _LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared $wl-h,$soname -o $lib $libobjs $deplib $compiler_flag}'
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)='${CC -shared $wl-Bexport:$export_symbols $wl-h,$soname -o $lib $libobjs $deplib $compiler_flag}'
      ;;
esac
::
sysv5* | sco3.2v5* | sco5v6*)
    # Note: We can NOT use -z defs as we might desire, because we do not
    # link with -lc, and that would cause any symbols used from libc to
    # always be unresolved, which means just about no library would
    # ever link correctly. If we're not using GNU ld we use -z text
    # though, which does catch some bad symbols but isn't as heavy-handed
    # as -z defs.
    # For security reasons, it is highly recommended that you always
    # use absolute paths for naming shared libraries, and exclude the
    # DT_RUNPATH tag from executables and libraries. But doing so
    # requires that you compile everything twice, which is a pain.
    # So that behaviour is only enabled if SCOABSPATH is set to a
    # non-empty value in the environment. Most likely only useful for
    # creating official distributions of packages.
    # This is a hack until libtool officially supports absolute path
    # names for shared libraries.
    _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo $wl-R,$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:',
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="$wl-Bexport"
runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -G $wl-h,$SCOABSPATH:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G $wl-Bexport:$export_symbols $wl-h,$SCOABSPATH:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags"
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $wl-h,$SCOABSPATH:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $wl-Bexport:$export_symbols $wl-h,$SCOarehouse:+${install_libdir}/$soname -o $lib $libobjs $deplibs $compiler_flags"
    ;;
    esac
  ;;
  tandem*)
    case $cc_basename in
      NCC*)
        # NonStop-UX NCC 3.20
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
      *)
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
        vxworks*)
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
      *)
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
      esac
      AC_MSG_RESULT($[LT_AC_TAGVAR(ld_shlibs, $1)])
    test "$[LT_AC_TAGVAR(ld_shlibs, $1)]" = no && can_build_shared=no
AC_LIBTOOL_POSTDEP_PREDEP($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC=$lt_save_CC
LDCXX=$LD
LD=$lt_save_LD
GCC=$lt_save_GCC
with_gnu_ldcxx=$with_gnu_ld
with_gnu_ld=$lt_save_with_gnu_ld
lt_cv_path_LDCXX=$lt_cv_path_LD
lt_cv_path_LD=$lt_save_path_LD
lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld
}

# AC_LIBTOOL_POSTDEP_PREDEP([TAGNAME])
#--------------------------------------
# Figure out "hidden" library dependencies from verbose
# compiler output when linking a shared library.
# Parse the compiler output and extract the necessary
# objects, libraries and library flags.
AC_DEFUN([AC_LIBTOOL_POSTDEP_PREDEP],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
dnl we can't use the lt_simple_compile_test_code here,
dnl because it contains code intended for an executable,
dnl not a library. It's possible we should let each
dnl tag define a new lt_????_link_test_code variable,
dnl but it's only used here...
ifelse([S1],[[],cat > conftest.Sac_ext <<EOF
int a;
void foo (void) { a = 0; }
EOF
], [S1],[CXX],[cat > conftest.Sac_ext <<EOF
class Foo
{
  public:
   Foo (void) { a = 0; }
EOF
]
private:
    int a;
};
EOF
]
$1]
$F77
$cat > conftest.$ac_ext <<EOF
    subroutine foo
        implicit none
        integer*4 a
        a=0
        return
    end
EOF
]
$1]
$GCJ
$cat > conftest.$ac_ext <<EOF
public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
}
EOF
)
]}}

dnl Parse the compiler output and extract the necessary
dnl objects, libraries and library flags.
if AC_TRY_EVAL(ac_compile); then
    # Parse the compiler output and extract the necessary
    # objects, libraries and library flags.
    # Sentinel used to keep track of whether or not we are before
    # the conftest object file.
    pre_test_object_deps_done=no

    # The '*' in the case matches for architectures that use 'case' in
    # $output_verbose_cmd can trigger glob expansion during the loop
    # eval without this substitution.
    output_verbose_link_cmd='$echo "X$output_verbose_link_cmd" | $Xsed -e "$no_glob_subst"'

    for p in 'eval $output_verbose_link_cmd'; do
case $p in
    -L* | -R* | -l*)
        # Some compilers place space between "-[L,R]" and the path.
        # Remove the space.
        if test $p = "-L" \ || test $p = "-R"; then
            prev=$p
            continue
        else
            prev=

    "X$soutput_verbose_link_cmd" | $Xsed -e "$no_glob_subst"
    esac
    esac

if test "$pre_test_object_deps_done" = no; then
case $p in
-\* | -R\*)
  # Internal compiler library paths should come after those
  # provided the user. The postdeps already come after the
  # user supplied libs so there is no need to process them.
  if test -z "$LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
    _LT_AC_TAGVAR(compiler_lib_search_path, $1)="$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$prev$pre...
") Parasillow;j Ignore the rest.

esac

# Clean up.
rm -f a.out a.exe
else
  echo "libtool.m4: error: problem compiling $1 test program"
fi

$rm -f confest.$objext

_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=
if test -n "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
  _LT_AC_TAGVAR(compiler_lib_search_dirs, $1)="$(_LT_AC_TAGVAR(compiler_lib_search_path, $1))" | $(SED) -e 's! -L! !g' -e 's!^ !!'
fi

# PORTME: override above test on systems where it is broken
ifelse([S1],[CXX],
  [case $host_os in
    interix[[3-9]*]
    # Interix 3.5 installs completely hosed .la files for C++, so rather than
    # hack all around it, let's just trust "g++" to DTRT.
    _LT_AC_TAGVAR(predep_objects,$1)=
    _LT_AC_TAGVAR(postdep_objects,$1)=
    _LT_AC_TAGVAR(postdeps,$1)=
    ;;
  linux*)
    case 'S$CC -V 2>&1 | sed 5q' in
      *Sun\ C*
      # Sun C++ 5.9
      #
      # The more standards-conforming stlport4 library is
      # incompatible with the Cstd library. Avoid specifying
      # it if it's in CXXFLAGS. Ignore libCrun as
      # -library=stlport4 depends on it.
      case " $CXX $CXXFLAGS " in
        *") -library=stlport4 "*
        solaris_use_stlport4=yes
        ;;
      esac
      if test "$solaris_use_stlport4" != yes; then
        _LT_AC_TAGVAR(postdeps,$1)="-library=Cstd -library=Crun"
fi
;;
esac
;

solaris*)
case $cc_basename in
  CC*)
    # The more standards-conforming stlport4 library is
    # incompatible with the Cstd library. Avoid specifying
    # it if it's in CXXFLAGS. Ignore libCrun as
    # -library=stlport4 depends on it.
case "$CXX $CXXFLAGS " in
      " -library=stlport4 "*)
        solaris_use_stlport4=yes
        ;;
esac

    # Adding this requires a known-good setup of shared libraries for
    # Sun compiler versions before 5.6, else PIC objects from an old
    # archive will be linked into the output, leading to subtle bugs.
    if test "$solaris_use_stlport4" != yes; then
      _LT_AC_TAGVAR(postdeps,$1)=:-library=Cstd -library=Crun'
      fi
    ;;
esac
  esac
)

# AC_LIBTOOL_POSTDEP_PREDEP

# AC_LIBTOOL_LANG_F77_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC.DEFUN([AC_LIBTOOL_LANG_F77_CONFIG], [LT_AC_LIBTOOL_LANG_F77_CONFIG(F77)])
AC.DEFUN([LT_AC_LIBTOOL_LANG_F77_CONFIG(F77)])
[AC_REQUIRE([AC_PROG_F77])]
AC_LANG_PUSH(Fortran 77)

_LT_AC_TAGVAR(archive_cmds_need_Lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=

LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
LT_AC_TAGVAR(hardcode_direct, $1)=no
LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
LT_AC_TAGVAR(hardcode_minus_L, $1)=no
LT_AC_TAGVAR(hardcode_automatic, $1)=no
LT_AC_TAGVAR(module_cmds, $1)=
LT_AC_TAGVAR(module_expsym_cmds, $1)=
LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Source file extension for f77 test sources.
ac_ext=f

# Object file extension for compiled f77 test sources.
objext=o
LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="
  subroutine t
  return
  end
"

# Code to be used in simple link tests
lt_simple_link_test_code="
  program t
  end
"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
LT_COMPILER_BOILERPLATE
LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
LT_AC_TAGVAR(compiler, $1)=$CC
LT_CC_BASENAME([$compiler])
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([Scan_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "Scan_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
  aix3*)
    test "Enable_shared" = yes && enable_static=no
    if test -n "$RANLIB"; then
      archive_cmds="archive_cmds~\$RANLIB \$lib"
      postinstall_cmds="\$RANLIB \$lib"
    fi
    ;;
  aix[4-9]*)
    if test "Host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
      test "Enable_shared" = yes && enable_static=no
    fi
    ;;
esac
AC_MSG_RESULT([Enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "Enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([Enable_static])

_LT_AC_TAGVAR(GCC, $1)="$G77"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
]# AC_LIBTOOL_LANG_F77_CONFIG

# AC_LIBTOOL_LANG_GCJ_CONFIG
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_GCJ_CONFIG], [\_LT_AC_LANG_GCJ_CONFIG(GCJ)])
AC_DEFUN([\_LT_AC_LANG_GCJ_CONFIG],
[AC_LANG_SAVE

# Source file extension for Java test sources.
ac_ext=java

# Object file extension for compiled Java test sources.
objext=o
\_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="class foo {}"

# Code to be used in simple link tests
lt_simple_link_test_code='public class conftest { public static void main(String[] argv) {} ; ; }'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
\_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
\_LT_COMPILER_BOILERPLATE
\_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${GCJ-"gcj"}
compiler=$CC
\_LT_AC_TAGVAR(compiler, $1)=$CC
\_LT_CC_BASENAME([compiler])

# GCJ did not exist at the time GCC didn't implicitly link libc in.
\_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
\_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
})# AC_LIBTOOL_LANG_GCI_CONFIG

# AC_LIBTOOL_LANG_RC_CONFIG
# -------------------------
# Ensure that the configuration vars for the Windows resource compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_RC_CONFIG], [__LT_AC_LANG_RC_CONFIG(RC)])
AC_DEFUN([__LT_AC_LANG_RC_CONFIG], [AC_LANG_SAVE

# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
__LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED }'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"

# ltmain only uses SCC for tagged configurations so make sure $CC is set.
__LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
__LT_COMPILER_BOILERPLATE
__LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lit_save_CC="$CC"
CC=$[RC:"windres"]
compiler=$CC
__LT_AC_TAGVAR(compiler, $1)=$CC
__LT_CC_BASENAME($compiler)
__LT_AC_TAGVAR(lt_cv прог Compiler c _o, $1)=yes

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
AC_LIBTOOL_LANG_RC_CONFIG

# AC_LIBTOOL_CONFIG([TAGNAME])
# ----------------------------
# If TAGNAME is not passed, then create an initial libtool script
# with a default configuration from the untagged config vars. Otherwise
# add code to config.status for appending the configuration named by
# TAGNAME from the matching tagged config vars.
AC_DEFUN([AC_LIBTOOL_CONFIG],
[# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
  # See if we are running on zsh, and set the options which allow our commands through
  # without removal of \ escapes.
  if test -n "${ZSH_VERSION+set}" ; then
    setopt NO_GLOB_SUBST
  fi
  # Now quote all the things that may contain metacharacters while being
  # careful not to overquote the AC_SUBSTed values. We take copies of the
  # variables and quote the copies for generation of the libtool script.
  for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC LTCFLAGS NM \
    SED SHELL STRIP \
    libname_spec library_names_spec soname_spec extract_expsyms_cmds \
    old_striplib striplib file_magic_cmd finish_cmds finish_eval \
    deplib_check_method reload_flag reload_cmds need_locks \
    lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
    lt_cv_sys_global_symbol_to_c_name_address \
    sys_lib_search_path_spec sys_lib_dlssearch_path_spec \
    old_postinstall_cmds old_postuninstall_cmds \
    _LT_AC_TAGVAR(compiler, $1) \
    _LT_AC_TAGVAR(CC, $1) \
    _LT_AC_TAGVAR(LD, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) \ 
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1) \ 
    _LT_AC_TAGVAR(thread_safe_flag_spec, $1) \ 
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1) \ 
    _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1) \ 
    _LT_AC_TAGVAR(old_archive_cmds, $1) \ 
    _LT_AC_TAGVAR(old_archive_from_new_cmds, $1) \ 
    _LT_AC_TAGVAR(predep_objects, $1) \ 
    _LT_AC_TAGVAR(predeps, $1) \\
  do
    AC_SUBST($var="\"$var\""")
  done
fi

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case $var in
  _LT_AC_TAGVAR(old_archive_cmds, $1) | 
  _LT_AC_TAGVAR(old_archive_from_new_cmds, $1) | 
  _LT_AC_TAGVAR(archive_cmds, $1) | 
  _LT_AC_TAGVAR(archive_expsym_cmds, $1) | 
  _LT_AC_TAGVAR(module_cmds, $1) | 
  _LT_AC_TAGVAR(module_expsym_cmds, $1) | 
  _LT_AC_TAGVAR(old_archive_from_exypsms_cmds, $1) | 
  _LT_AC_TAGVAR(export_symbols_cmds, $1) | 
  extract_expsyms_cmds | reload_cmds | finish_cmds | 
  postinstall_cmds | postuninstall_cmds | 
  old_postinstall_cmds | old_postuninstall_cmds | 
  sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
    # Double-quote double-evaled strings.
    eval "lt_$var=""\"\"\$echo "X$s$var" | \$Xsed -e \"\"\$double_quote_subst\"\" -e \"\"\$sed_quote_subst\"\" -e \"\"\$delay_variable_subst\"\""
    ;;
  *)
    eval "lt_$var=""\"\"\$echo "X$s$var" | \$Xsed -e \"\"\$sed_quote_subst\"\"
    ;;
    esac
done

case $lt_echo in
  "*[[$]0 --fallback-echo"
    lt_echo='$echo "X$lt_echo" | $Xsed -e \"\"\$sed_quote_subst\"\" -e \"\"\$delay_variable_subst\"\""
    ;;
  *)
    eval "lt_$var=""\"\"\$echo "X$s$var" | \$Xsed -e \"\"\$sed_quote_subst\"\"
    ;;
    esac
done
ifelse([1], [],
    [cfgfile="${ofile}"
    trap "rm "$cfgfile"; exit 1" 1 2 15
    rm -f "$cfgfile"
    AC_MSG_NOTICE([creating $ofile]),
    [cfgfile="$ofile"])

cat «__EOF__» "$cfgfile"
ifelse([1], [],
[#! $SHELL
  # '$echo "$cfgfile" | sed 's%^.*/%%'" - Provide generalized library-building support services.
  # Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
  # NOTE: Changes made to this file will be lost: look at ltmain.sh.
  #
  # Free Software Foundation, Inc.
  #
  # This file is part of GNU Libtool:
  # Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
  #
  # This program is free software; you can redistribute it and/or modify
  # it under the terms of the GNU General Public License as published by
  # the Free Software Foundation; either version 2 of the License, or
  # (at your option) any later version.
  #
  # This program is distributed in the hope that it will be useful, but
  # WITHOUT ANY WARRANTY; without even the implied warranty of
  # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
  # General Public License for more details.
  #
  # You should have received a copy of the GNU General Public License
  # along with this program; if not, write to the Free Software
  # Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
  #
  # As a special exception to the GNU General Public License, if you
  # distribute this file as part of a program that contains a
  # configuration script generated by Autoconf, you may include it under
  # the same distribution terms that you use for the rest of that program.

  # A sed program that does not truncate output.
  SED=$lt_SED

  # Sed that helps us avoid accidentally triggering echo(1) options like -n.
  Xsed="$SED -e 1s/^X/"
# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# The names of the tagged configurations supported by this script.
available_tags=

### BEGIN LIBTOOL CONFIG],
[# ### BEGIN LIBTOOL TAG CONFIG: $tagname]

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null | sed 1q`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
build_libtool_libs=$enable_shared

# Whether or not to build static libraries.
build_old_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=$_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)

# Whether or not to optimize for fast installation.
fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host
host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS
# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCCFLAGS

# A language-specific compiler.
CC=$lt_LT_AC_TAGVAR(compiler, $1)

# Is the compiler the GNU C compiler?
with_gcc=$LT_AC_TAGVAR(GCC, $1)

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$LT_AC_TAGVAR(LD, $1)

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$LT_AC_TAGVAR(lt_prog_compiler_wl, $1)
# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds="$shrext_cmds"

# Executable file suffix (normally "")
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_[[]]_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_[[]]_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_[[]]_LT_AC_TAGVAR(lt_prog_compiler_static, $1)

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_[[]]_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)

# Compiler flag to allow reflexive dlopsens.
export_dynamic_flag_spec=$lt_[]_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)
# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_[]_LT_AC_TAGVAR(whole_archive_flag_spec, $1)
# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_[]_LT_AC_TAGVAR(thread_safe_flag_spec, $1)
# Library versioning type.
version_type=$version_type
# Format of library name prefix.
libname_spec=$lt_libname_spec
# List of archive names. First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec
# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec
# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_cmds, $1)
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds
# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_new_cmds, $1)
# Create a temporary old-style archive to link instead of a shared archive.
old_archive_from_expsyms_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)
# Commands used to build and install a shared archive.
archive_cmds=$lt_[]_LT_AC_TAGVAR(archive_cmds, $1)
archive_expsym_cmds=$lt_[]_LT_AC_TAGVAR(archive_expsym_cmds, $1)
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds
# Commands used to build a loadable module (assumed same as above if empty)
module_cmds=$lt_[]_LT_AC_TAGVAR(module_cmds, $1)
module_expsym_cmds=$lt_[]_LT_AC_TAGVAR(module_expsym_cmds, $1)
# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib
# Dependencies to place before the objects being linked to create a

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# shared library.
predep_objects=$lt_[]_LT_AC_TAGVAR(predep_objects, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_[]_LT_AC_TAGVAR(postdep_objects, $1)

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_[]_LT_AC_TAGVAR(predeps, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_[]_LT_AC_TAGVAR(postdeps, $1)

# The directories searched by this compiler when creating a shared
# library
compiler_lib_search_dirs=$lt_[]_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=$lt_[]_LT_AC_TAGVAR(compiler_lib_search_path, $1)

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_[]_LT_AC_TAGVAR(allow_undefined_flag, $1)

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_[]_LT_AC_TAGVAR(no_undefined_flag, $1)

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be evaled but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_address

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$_LT_AC_TAGVAR(hardcode_action, $1)

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \$libdir into a binary during linking.
# This must work even if \$libdir does not exist.
hardcode_libdir_flag_spec=$LT_[][LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)

# If ld is used when linking, flag to hardcode \$libdir into
# a binary during linking. This must work even if \$libdir does
# not exist.
hardcode_libdir_flag_spec_ld=$LT_[][LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$LT_[][LT_AC_TAGVAR(hardcode_libdir_separator, $1)

# Set to yes if using DIR/libNAME[shared_ext] during linking hardcodes DIR into the
# resulting binary.
hardcode_direct=$_LT_AC_TAGVAR(hardcode_direct, $1)

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$_LT_AC_TAGVAR(hardcode_minus_L, $1)

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$LT_[][LT_AC_TAGVAR(hardcode_shlibpath_var, $1)

# Set to yes if building a shared library automatically hardcodes DIR into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$_LT_AC_TAGVAR(hardcode_automatic, $1)

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"
# Whether libtool must link a program against all its dependency libraries.
link_all_deplibs=$_LT_AC_TAGVAR(link_all_deplibs, $1)

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \$srcfile for the compiler.
fix_srcfile_path=$lt_fix_srcfile_path

# Set to yes if exported symbols are required.
always_export_symbols=$_LT_AC_TAGVAR(always_export_symbols, $1)

# The commands to list exported symbols.
export_symbols_cmds=$lt_[[]]_LT_AC_TAGVAR(export_symbols_cmds, $1)

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_[[]]_LT_AC_TAGVAR(extract_expsyms_cmds)

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_[[]]_LT_AC_TAGVAR(exclude_expsyms, $1)

# Symbols that must always be exported.
include_expsyms=$lt_[[]]_LT_AC_TAGVAR(include_expsyms, $1)

ifelse([$1],[],
    [# ### END LIBTOOL CONFIG],
    [# ### END LIBTOOL TAG CONFIG: $tagname])

__EOF__

ifelse([$1],[], [
    case $host_os in
    aix3*)
        cat <<\EOF >> "$cfgfile"

    # AIX sometimes has problems with the GCC collect2 program. For some
    # reason, if we set the COLLECT_NAMES environment variable, the problems
    # vanish in a puff of smoke.
    if test "X$COLLECT_NAMES+set" != Xset; then
        COLLECT_NAMES=
        export COLLECT_NAMES
    fi

EOF
;];;
We use sed instead of cat because bash on DJGPP gets confused if
if finds mixed CR/LF and LF-only lines. Since sed operates in
# text mode, it properly converts lines to CR/LF. This bash problem
# is reportedly fixed, but why not run on old versions too?
sed 'Sltmain' >> "$cfgfile" (rm -f "$cfgfile"; exit 1)

mv -f "$cfgfile" "Sofile" \
  (rm -f "Sofile" && cp "$cfgfile" "Sofile" && rm -f "$cfgfile")
chmod +x "Sofile"
)
else
  # If there is no Makefile yet, we rely on a make rule to execute
  # 'config.status --recheck' to rerun these tests and create the
  # libtool script then.
  ltmain_in="echo $ltmain | sed -e 's/\.sh$/\.in/'"
  if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
  fi
fi
)

# AC_LIBTOOL_PROG_COMPILER_NO_RTTI([TAGNAME])
# ---------------------------------------------
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_NO_RTTI],
[AC_REQUIRE([AC_CANONICAL_HOST])]

_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=

if test "$GCC" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)="-fno-builtin"
fi
)

# AC_LIBTOOL_SYS_GLOBAL_SYMBOLPIPE
# ----------------------------------
AC_DEFUN([AC_LIBTOOL_SYS_GLOBAL_SYMBOLPIPE],
[AC_REQUIRE([AC_CANONICAL_HOST])]}


AC_REQUIRE([AC_PROG_NM])
AC_REQUIRE([AC_OBJEXT])

# Check for command to grab the raw symbol name followed by C symbol from nm.
AC_MSG_CHECKING([command to parse $NM output from $compiler object])
AC_CACHE_VAL([lt_cv_sys_global_symbol_pipe],

[ # These are sane defaults that work on at least a few old systems.
# [They come from Ultrix. What could be older than Ultrix?! ;)]

# Character class describing NM global symbol codes.
    symcode='[BCDEGRST]'

# Regexp to match symbols that can be accessed directly from C.
sympat='([\[A-Za-z]][\[A-Za-z0-9]]+)'

# Transform an extracted symbol line into a proper C declaration
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^.*\(.*\)/\(\1\)/p' -e 's/$symcode/\1/pc' -e 's/^\(\[^\ ]\)*\(\[^\ ]\)*$/\(\2\)/p' -e 's/^\(\[^\ ]\)*\(\[^\ ]\)*$/\(\2\)/p' -e 's/^[^\ ]\)/\1/pc'

# Transform an extracted symbol line into symbol name and symbol address
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \(\[^\ ]\)* $/\(\1\)/p' -e 's/$symcode/\&\1/pc' -e 's/^\(\[^\ ]\)*\(\[^\ ]\)*$/\(\2\)/p' -e 's/^\(\[^\ ]\)*\(\[^\ ]\)*$/\(\2\)/p' -e 's/^\(\[^\ ]\)*\(\[^\ ]\)*$/\(\2\)/p' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc'

# Define system-specific variables.
case $host_os in
aix*)
symcode='[BCDT]' ;;
cygwin* | mingw* | pw32*)
symcode='[ABCDGISTW]' ;;
hpux*) # Its linker distinguishes data from code symbols
    if test "$host_cpu" = ia64; then
        symcode='[ABCDGIRST]' fi
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \(.*\)/\(\1\)/p' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc'

lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \(\[^\ ]\)* $/\(\1\)/p' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc'

linux* | k*bsd*-gnu)
    if test "$host_cpu" = ia64; then
        symcode='[ABCDGIRSTW]' fi
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \(.*\)/\(\1\)/p' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc'

lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \(\[^\ ]\)* $/\(\1\)/p' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc' -e 's/^[^\ ]\)/\1/pc'

fi ;;

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irix* | nonstopux*)
symcode='[BCDEGRST]'
;;
osf*)
symcode='[BCDEGQRST]'
;;
solaris*)
symcode='[BDRT]'
;;
sco3.2v5*)
symcode='[DT]'
;;
sysv4.2uw2*)
symcode='[DT]'
;;
sysv5* | sco5v6* | unixware* | OpenUNIX*)
symcode='[ABDT]'
;;
sysv4)
symcode='[DFNSTU]'
;;
esac

# Handle CRLF in mingw tool chain
opt_cr=
case $build_os in
mingw*)
op_crr='echo \x\{0,1\}\ | tr x \015' # option cr in regexp
;;
esac

# If we're using GNU nm, then use its standard symbol codes.
cas 'SNM -V 2>&1' in
*GNU* | *with BFD* )
symcode='[ABCDGIRSTW]'
;;
esac

# Try without a prefix underscore, then with it.
for ac_symprfx in " "; do

# Transform symcode, sympat, and symprfx into a raw symbol and a C symbol.
symxfrm="\$1 $ac_symprfx\2 \2"

# Write the raw and C identifiers.
l_cv_cv_sys__global__symbol_pipe="sed -n -e \s/^[ ]?[ ]?[ ]?[$symcode$symcode*][ ]?[ ]?[ ]?[ ]?[$symcode$symcode*][ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ ]?[ }
pipe_works=no

rm -f conftest*
cat > conftest.$ac_ext <<EOF
#ifdef __cplusplus
extern "C" {
#endif
char nm_test_var;
void nm_test_func() {}
#ifdef __cplusplus
}
#endif
int main(){nm_test_var='a';nm_test_func();return(0);
} EOF

if AC_TRY_EVAL(ac_compile); then
  # Now try to grab the symbols.
  nlist=conftest.nm
  if AC_TRY_EVAL(NM conftest.$ac_objext \|$lt_cv_sys_global_symbol_pipe \>$nlist) && test -s "$nlist"; then
    # Try sorting and uniquifying the output.
    if sort "$nlist" | uniq > "$nlist"T; then
      mv -f "$nlist"T "$nlist"
    else
      rm -f "$nlist"T
    fi
  else
    if grep ' nm_test_var$' "$nlist" >/dev/null; then
      if grep ' nm_test_func$' "$nlist" >/dev/null; then
        cat <<EOF > conftest.$ac_ext
#ifdef __cplusplus
extern "C" {
#endif
EOF
    # Now generate the symbol file.
    eval "$lt_cv_sys_global_symbol_to_cdecl"' < "$nlist" | grep -v main >> conftest.$ac_ext'
    cat <<EOF >> conftest.$ac_ext
#elif defined (__STDC__) && __STDC__
  # define lt_ptr_t void *
  #else
  # define lt_ptr_t char *
  # define const
#endif

/* The mapping between symbol names and symbols. */
const struct {
const char *name;
ltt_ptr_t address;
}
lt_preloaded_symbols[][] =
{
EOF
$SED "s/^$symcode$symcode* (\.*)(\.*)/ {"\2", (lt_ptr_t) &\2},/" < "$nlist" | grep -v main >> conftest.$ac_ext
  cat <<EOF >> conftest.$ac_ext
  {0, (lt_ptr_t) 0}
};
#endif
EOF
# Now try linking the two files.
mv conftest.$ac_objext conftst.$ac_objext
lt_save_LIBS="$LIBS"
ltn_save_CFLAGS="$CFLAGS"
LIBS="conftst.$ac_objext"
CFLAGS="$CFLAGS$_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)"
if AC_TRY_EVAL(ac_link) && test -s conftest$ac_exeext; then
  pipe_works=yes
  fi
  LIBS="$lt_save_LIBS"
  CFLAGS="$lt_save_CFLAGS"
else
  echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
  fi
else
  echo "cannot find nm_test_var in $nlist" >&AS_MESSAGE_LOG_FD
  fi
else
  echo "cannot run $lt_cv_sys_global_symbol_pipe" >&AS_MESSAGE_LOG_FD
  fi
else
  echo "$progname: failed program was:" >&AS_MESSAGE_LOG_FD
  cat conftest.$ac_ext >&5
  fi
rm -rf conftest* conftst*

# Do not use the global_symbol_pipe unless it works.
if test "$pipe_works" = yes; then
  break
else
  lt_cv_sys_global_symbol_pipe=
  fi
done
]
if test -z "$lt_cv_sys_global_symbol_pipe"; then
   lt_cv_sys_global_symbol_to_cdecl=
fi
if test -z "$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
   AC_MSG_RESULT(failed)
else
   AC_MSG_RESULT(ok)
fi
)
# AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE

# AC_LIBTOOL_PROG_COMPILER_PIC([TAGNAME])
# ---------------------------------------
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_PIC],
[LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=
 LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
 LT_AC_TAGVAR(lt_prog_compiler_static, $1)=
AC_MSG_CHECKING([for $compiler option to produce PIC])
ifelse([$1],[CXX],[
 # C++ specific cases for pic, static, wl, etc.
if test "$SGXX" = yes; then
   LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
   LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
else in
   aix*
    # All AIX code is PIC.
    if test "$host_cpu" = ia64; then
    # AIX 5 now supports IA64 processor
    LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi
  ;;
  amigaos*)
    # FIXME: we need at least 68020 code to build shared libraries, but
    # adding the '-m68020' flag to GCC prevents building anything better,
    # like '-m68040'.
    LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
  ;;
  beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
    # PIC is the default for these OSes.
  ;;
  mingw* | cygwin* | os2* | pw32*)
    # This hack is so that the source file can tell whether it is being
    # built for inclusion in a dll (and should export symbols for example).
    # Although the cygwin gcc ignores -fPIC, still need this for old-style


# (--disable-auto-import) libraries
m4_if([${1}], [GCJ], [],
[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)'=\'-DDLL\_EXPORT\''])
;;
darwin* | rhapsody*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH\_DYL\_LIB files
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)'=\'-fno-common\'
  ;;
  *djgpp*)
  # DJGPP does not support shared libraries at all
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
  ;;
  interix[[3-9]]*)
  # Interix 3.x gcc -fpic/-fPIC options generate broken code.
  # Instead, we relocate shared libraries at runtime.
  ;;
  *sysv4*MP*)
  if test -d /usr/nec; then
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)'=Kconform_pic
    fi
  ;;
  *hpux*)
  # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
  # not for PA HP-UX.
  case $host_cpu in
  hppa*64*|ia64*)
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)'=Kconform_pic
    esac
  ;;
  *)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)'=\'-fPIC\'
  ;;
  esac
  ;;
  *)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)'=\'-fPIC\'
  ;;
  esac
else
  case $host_os in
  aix[[4-9]]*)
    # All AIX code is PIC.
    if test "$host_cpu" = ia64; then
      # AIX 5 now supports IA64 processor
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)'=\'-Bstatic\'
    else
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)'=\'-bnso \-bf:/lib/syscalls.exp\'
    fi
  ;;
  esac
fi
chorus*)
case $cc_basename in
cxch68*)
  # Green Hills C++ Compiler
  # _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="-no_auto_instantiation -u _main -u _premain -u _abort -r
  $COOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a $MVME_DIR/lib/classix/libcx.s.a"
  ;;
esac
  ;;
  darwin*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
  case $cc_basename in
    xlc*)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      ;;
esac
    ;;
    dgux*)
  case $cc_basename in
    ec++*)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
      ;;
    ghcx*)
      # Green Hills C++ Compiler
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
      ;;
    *)
      ;;
esac
    ;;
    freebsd* | dragonfly*)
  # FreeBSD uses GNU C++
  ;;
  hpux9* | hpux10* | hpux11*)
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
    if test "$host_cpu" != ia64; then
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
    fi
    ;;
  aCC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
;;
*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
  esac
  ;;
*)
  esac
  ;;
_interix*)
# This is c89, which is MS Visual C++ (no shared libs)
# Anyone wants to do a port?
;;
  irix5* | irix6* | nonstopux*)
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
    # CC pic flag -KPIC is the default.
    ;;
  *)
    ;;
  esac
  ;;
  _linux* | _k*bsd*-gnu)
case $cc_basename in
  KCC*)
    # KAI C++ Compiler
    _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog Compiler static, $1)='-fPIC'
    ;;
  icpc* | ecpc*)
    # Intel C++
    _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='-fPIC'
    _LT_AC_TAGVAR(lt_prog Compiler static, $1)='-Bstatic'
    ;;
  pgCC* | pgcpp*)
    # Portland Group C++ compiler.
    _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='-fPIC'
    _LT_AC_TAGVAR(lt_prog Compiler static, $1)='-Bstatic'
    ;;
  cxx*)
    # Compaq C++
# Make sure the PIC flag is empty. It appears that all Alpha
# Linux and Compaq Tru64 Unix objects are PIC.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-
_LT_AC_TAGVAR(lt_prog Compiler static, $1)="-non_shared"
;;
*)
case `$CC -V 2>&1 | sed $5q' in
*Sun\ C*
  # Sun C++ 5.9
  _LT_AC_TAGVAR(lt_prog Compiler Pic, $1)="-KPIC"
  _LT_AC_TAGVAR(lt_prog Compiler static, $1)="-Bstatic"
  _LT_AC_TAGVAR(lt_prog Compiler wl, $1)="-Qoption ld `
  ;;
esac
esac
;;
lynxos*)
;;
m88k*)
;;
mvs*)
case $cc_basename in
  cxx*)
    _LT_AC_TAGVAR(lt_prog Compiler Pic, $1)="-W c,exportall"
  ;;
*)
  ;;
esac
;;
netbsd*)
;;
  osf3* | osf4* | osf5*)
case $cc_basename in
  KCC*)
    _LT_AC_TAGVAR(lt_prog Compiler wl, $1)="--backend -Wl,`
    ;;
  RCC*)
    # Rational C++ 2.4.1
    _LT_AC_TAGVAR(lt_prog Compiler Pic, $1)="-pic"
    ;;
cxx*)
    # Digital/Compaq C++
    _LT_AC_TAGVAR(lt_prog Compiler wl, $1)="-Wl,`
    # Make sure the PIC flag is empty. It appears that all Alpha
    # Linux and Compaq Tru64 Unix objects are PIC.
    _LT_AC_TAGVAR(lt_prog Compiler Pic, $1)=
    _LT_AC_TAGVAR(lt_prog Compiler static, $1)="-non_shared"
case $cc_basename in
  CC*
    # Sun C++ 4.2, 5.x and Centerline C++
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-KPIC"
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="-Bstatic"
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)="-Qoption ld -Wl"
  ;;
  gcx*
    # Green Hills C++ Compiler
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-PIC"
    ;;
  *)
    ;;
  esac
  ;;
  sunos4*
  esac
case $cc_basename in
  CC*
    # Sun C++ 4.x
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-pic"
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="-Bstatic"
    ;;
  lcc*
    # Lucid
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-pic"
    ;;
  *)
    ;;
  esac
  ;;
  tandem*
  esac
case $cc_basename in
  NCC*
    # NonStop-UX NCC 3.20
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-KPIC"
    ;;
  *)
    ;;
  esac
  ;;
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    esac
  ;;
  vxworks*)
    esac
  ;;
)*)
    _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
    esac
if test "$GCC" = yes; then
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
    case $host_os in
      aix*)
        # All AIX code is PIC.
        if test "$host_cpu" = ia64; then
          # AIX 5 now supports IA64 processor
          _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
        fi
      ;;
      amigaos*)
        # FIXME: we need at least 68020 code to build shared libraries, but
        # adding the '-m68020' flag to GCC prevents building anything better,
        # like '-m68040'.
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
      ;;
      beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
        # PIC is the default for these OSes.
      ;;
      mingw* | cygwin* | pw32* | os2*)
        # This hack is so that the source file can tell whether it is being
        # built for inclusion in a dll (and should export symbols for example).
        # Although the cygwin gcc ignores -fPIC, still need this for old-style
        # (--disable-auto-import) libraries
    m4_if([$1], [GCJ], [])

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT')
;;

darwin* | rhapsody*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-fno-common'
;;

interix[[3-9]]*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;

msdos|djgpp*)
# Just because we use GCC doesn't mean we suddenly get shared libraries
# on systems that don't support them.
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
enable_shared=no
;;

 sysv4*MP*)
 if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
 fi
;;

hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
;;
 *)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
;;
 *
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
else
# PORTME Check for flag to pass linker flags through the system compiler.
case $host_os in
aix*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
if test "$host_cpu" = ia64; then
  # AIX 5 now supports IA64 processor
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
else
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -bl:/lib/syscalls.exp'
fi
;

darwin*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
  case $cc_basename in
    xlc*)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      ;;
      esac
    ;;
    esac
  esac
mingw* | cygwin* | pw32* | os2*)
  # This hack is so that the source file can tell whether it is being
  # built for inclusion in a dll (and should export symbols for example).
  m4_if([$1], [GCJ], [],
[ _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
  ;;
  hpux9* | hpux10* | hpux11*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
  # not for PA HP-UX.
  case $host_cpu in
    hppa*64*|ia64*)
      # +Z the default
      ;;
      *)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
    ;;
    esac
  # Is there a better lt_prog_compiler_static that works with the bundled CC?
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
  ;;
  irix5* | irix6* | nonstopux*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC (with -KPIC) is the default.
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;
newsos6)

.lt_ac_tagvar(lt_prog_compiler_pic, $1)='-KPIC'
.lt_ac_tagvar(lt_prog_compiler_static, $1)='-Bstatic'
;;

linux* | k*bsd*-gnu)
case $cc_basename in
  icc* | ecc*)
    .lt_ac_tagvar(lt_prog_compiler_pic, $1)='-KPIC'
    .lt_ac_tagvar(lt_prog_compiler_static, $1)='-static'
  ;;
  pgcc* | pgf77* | pgf90* | pgf95*)
    # Portland Group compilers (*not* the Pentium gcc compiler, # which looks to be a dead project)
    .lt_ac_tagvar(lt_prog_compiler_wl, $1)='-Wl,'
    .lt_ac_tagvar(lt_prog_compiler_pic, $1)='-fpic'
    .lt_ac_tagvar(lt_prog_compiler_static, $1)='-Bstatic'
    ;;
  ccc*)
    .lt_ac_tagvar(lt_prog_compiler_wl, $1)='-Wl,'
    # All Alpha code is PIC.
    .lt_ac_tagvar(lt_prog_compiler_static, $1)='-non_shared'
    ;;
  *)
    case 'SCC -V 2>&1 | sed 5q' in
    *Sun\ C*)
      # Sun C 5.9
      .lt_ac_tagvar(lt_prog_compiler_pic, $1)='-KPIC'
      .lt_ac_tagvar(lt_prog_compiler_static, $1)='-Bstatic'
      .lt_ac_tagvar(lt_prog_compiler_wl, $1)='-Wl,'
    ;;
    *Sun\ F*)
      # Sun Fortran 8.3 passes all unrecognized flags to the linker
      .lt_ac_tagvar(lt_prog_compiler_pic, $1)='-KPIC'
      .lt_ac_tagvar(lt_prog_compiler_static, $1)='-Bstatic'
      .lt_ac_tagvar(lt_prog_compiler_wl, $1)="
    ;;
    esac
    ;;
    esac
    ;;

  osf3* | osf4* | osf5*)
    .lt_ac_tagvar(lt_prog_compiler_wl, $1)='-Wl,'
    # All OSF/1 code is PIC.
    .lt_ac_tagvar(lt_prog_compiler_static, $1)='-non_shared'
    ;;
rdos*)
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=''-non_shared'
  ;;

solaris*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=''-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=''-Bstatic'
  case $cc_basename in
    f77* | f90* | f95*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''-Qoption ld ''
      *)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''-Wl,''
      esac
    ;;

sunos4*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''-Qoption ld ''
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=''-PIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=''-Bstatic'
  ;;

sysv4 | sysv4.2uw2 | sysv4.3*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=''-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=''-Bstatic'
  ;;

sysv4*MP*)
  if test -d /usr/nec ;then
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=''-Kconform_pic'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=''-Bstatic'
    fi
  ;;

sysv5 | unixware | sco3.2v5 | sco5v6 | OpenUNIX*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=''-KPIC'
  _LT_AC_TAGVAR(lt_progCompiler_static, $1)=''-Bstatic'
  ;;

unicos*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  ;;

uts4*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'

*)
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no

esac
fi
)
AC_MSG_RESULT([$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)])

#
# Check to make sure the PIC flag actually works.
#
if test -n "$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)"; then
AC_LIBTOOL_COMPILER_OPTION([if $compiler PIC flag $_LT_AC_TAGVAR(lt_prog_compiler_pic, $1) works],
_LT_AC_TAGVAR(lt_cv_prog_compiler_pic_works, $1),
[$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[],[-DPIC],[ifelse([$1],[CXX],[ -DPIC],[[]])]),[],
case $_LT_AC_TAGVAR(lt_prog_compiler_pic, $1) in
"" | "") ;;
*) _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ;;
esac,
[$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no])
fi

case $host_os in
  *
djgpp*
  )
_ LT AC_TAGVAR(lt_prog_compiler_pic, $1)=

  *)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[],[-DPIC],[ifelse([$1],[CXX],[ -DPIC],[[]])])"

  esac

#
# Check to make sure the static flag actually works.
#
wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1) eval
lt_tmp_static_flag="$_LT_AC_TAGVAR(lt_prog_compiler_static, $1)"
AC_LIBTOOL_LINKER_OPTION([if $compiler static flag $lt_tmp_static_flag works],
_ LT_AC_TAGVAR(lt_cv_prog_compiler_static_works, $1),
$lt_tmp_static_flag,

[[]]

[_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=])
)
# AC_LIBTOOL_PROG_LD_SHLIBS([TAGNAME])
# ------------------------------------
# See if the linker supports building shared libraries.
AC_DEFUN([AC_LIBTOOL_PROG_LD_SHLIBS],
  [AC_REQUIRE([LT_AC_PROG_SED])]
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
ifset([$1],[CXX],[
  _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM $libobjs $convenience | $global_symbol_pipe | $SED "'^s/.* //'' | sort | uniq > $export_symbols' case $host_os in
    aix([4-9])*)
    # If we're using GNU nm, then we don't want the "-C" option.
    # -C means demangle to AIX nm, but means don't demangle with GNU nm
    if "$NM" -V 2>&1 | grep 'GNU' > /dev/null; then
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -Bpg $libobjs $convenience | awk '{ if (("$S" == "T") || ($S == "D") || (substr($S,1,1) != ".")) { print "$S" } }' | sort -u > $export_symbols'
    else
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -BCpg $libobjs $convenience | awk '{ if (("$S" == "T") || ($S == "D") || (substr($S,1,1) != ".")) { print "$S" } }' | sort -u > $export_symbols'
else
    _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -Bpg $libobjs $convenience | awk '{ if (("$S" == "T") || ($S == "D") || ($S == "B") && (substr($S,1,1) != ".")) { print "$S" } }' | sort -u > $export_symbols'
$export_symbols'
  fi
  ;;
  pw32*)
  _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ltdll_cmds"
  ;;
  cygwin* | mingw*)
  _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM $libobjs $convenience | $global_symbol_pipe | $SED -e "'^s/.* //'' | sort | uniq > $export_symbols'"
  ;;
*)
  _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM $libobjs $convenience | $global_symbol_pipe | $SED "'^s/.* //'' | sort | uniq > $export_symbols'"
  ;;
  esac
  _LT_AC_TAGVAR(exclude_expsyms, $1)=['_GLOBAL_OFFSET_TABLE_|_GLOBAL__FID_|_.*']
 ];
runpath_var=
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no
_LT_AC_TAGVAR(archive_cmds, $1)=
_LT_AC_TAGVAR(archive_expsyms_cmds, $1)=
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)=
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=

# Open Source Used in Secure Workload

### Section 3.6.1.1

- **_LT_AC_TAGVAR(thread_safe_flag_spec, $1)_** =
- **_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)_** =
- **_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)_** =
- **_LT_AC_TAGVAR(hardcode_libdir_separator, $1)_** =
- **_LT_AC_TAGVAR(hardcode_direct, $1)_** = no
- **_LT_AC_TAGVAR(hardcode_minus_L, $1)_** = no
- **_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)_** = unsupported
- **_LT_AC_TAGVAR(link_all_deplibs, $1)_** = unknown
- **_LT_AC_TAGVAR(hardcode_automatic, $1)_** = no
- **_LT_AC_TAGVAR(module_cmds, $1)_** =
- **_LT_AC_TAGVAR(module_expsym_cmds, $1)_** =
- **_LT_AC_TAGVAR(always_export_symbols, $1)_** = no
- **_LT_AC_TAGVAR(export_symbols_cmds, $1)_** = "$NM $libobjs $convenience | $global_symbol_pipe | $SED "s/.*//" sort | uniq > $export_symbols"

//"sort | uniq > $export_symbols"

# include_expsyms should be a list of space-separated symbols to be *always*
# included in the symbol list
- **_LT_AC_TAGVAR(include_expsyms, $1)_** =

# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ' (and ')$', so one must not match beginning or
# end of line. Example: 'a[bc].*d.*' will exclude the symbols 'a' and 'bc',
# as well as any symbol that contains 'd'.
- **_LT_AC_TAGVAR(exclude_expsyms, $1)_** = "[_GLOBAL_OFFSET_TABLE_][_GLOBAL__F[ID]_."]"

# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.

# Exclude shared library initialization/finalization symbols.
dnl Note also adjust exclude_expsyms for C++ above.
- **_LT_CC_BASENAME([$compiler])_**
case $host_os in
cygwin* | mingw* | pw32*)
  # FIXME: the MSVC++ port hasn't been tested in a loooong time
  # When not using gcc, we currently assume that we are using
  # Microsoft Visual C++.
  if test "$GCC" != yes; then
    with_gnu_ld=no
  fi
  ;;
  interix*)
  # we just hope/assume this is gcc and not c89 (= MSVC++)
  with_gnu_ld=yes
  ;;
  openbsd*)
  with_gnu_ld=no
  ;;
esac

_LT_AC_TAGVAR(ld_shlibs, $1)=yes
if test "$with_gnu_ld" = yes; then
# If archive_cmds runs LD, not CC, wlarc should be empty
wlarc='${wl}’

# Set some defaults for GNU ld with shared library support. These
# are reset later if shared libraries are not supported. Putting them
# here allows them to be overridden if necessary.
runpath_var=LD_RUN_PATH
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
# ancient GNU ld didn't support --whole-archive et. al.
if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience ""$wlarc"--no-whole-archive"
else
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
supports_anon_versioning=no

# See if GNU ld supports shared libraries.
case "$LD -v 2>/dev/null" in
  *\[[1-9].* | *\[2.[0-9].* | *\[2.10..*) ;; # catch versions < 2.11
  */2.11.93.0.2.* ) supports_anon_versioning=yes ;; # RH7.3 ...
  */2.11.92.0.12.* ) supports_anon_versioning=yes ;; # Mandrake 8.2 ...
  */2.11.*) ;; # other 2.11 versions
  *) supports_anon_versioning=yes ;;
esac

# See if GNU ld supports shared libraries.
case $host_os in
  aix\[[3-9].*)
    # On AIX/PPC, the GNU linker is very broken
    if test "$host_cpu" != ia64; then
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      cat <<EOF 1>&2
      *** Warning: the GNU linker, at least up to release 2.9.1, is reported
      *** to be unable to reliably create shared libraries on AIX.
      *** Therefore, libtool is disabling shared libraries support. If you
      *** really care for shared libraries, you may want to modify your PATH
      *** so that a non-GNU linker is found, and then restart.
      EOF
      fi
    ;;
  amigaos*)
Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports

# that the semantics of dynamic libraries on AmigaOS, at least up
# to version 4, is to share data among multiple programs linked
# with the same dynamic library. Since this doesn't match the
# behavior of shared libraries on other platforms, we can't use
# them.

```bash
_LT_AC_TAGVAR(ld_shlibs, $1)=no
```

beos*)

```bash
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Joseph Beckenbach <jrb3@best.com> says some releases of gcc
# support --undefined. This deserves some investigation. FIXME
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-soname
    $wl$soname -o $lib"
    else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
```

cygwin* | mingw* | pw32*)

```bash
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
# as there is no search path for DLLs.
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
```

if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then

```bash
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags -o
$output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib"
# If the export-symbols file already is a .def file (1st line
# is EXPORTS), use it as is; otherwise, prepend...
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)=if test "x$SSED 1q $export_symbols" = xEXPORTS; then
cp $export_symbols $output_objdir/$soname.def;
```

else
echo EXPORTS > $output_objdir/$soname.def;
cat $export_symbols >> $output_objdir/$soname.def;
fi~
$CC -shared $output_objdir/$soname.def $libobjs $deplibs $compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
  ;;

interix[[3-9]]*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
  # Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
  # Instead, shared libraries are loaded at an image base (0x10000000 by
  # default) and relocated if they conflict, which is a slow very memory
  # consuming and fragmenting process. To avoid this, we pick a random,
  # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
  # time. Moving up from 0x10000000 also allows more sbrk(2) space.
  _LT_AC_TAGVAR(archive_cmds, $1)='${wl}-h,$soname ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2 * 262144 + 1342177280' -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_," $export_symbols
  >$output_objdir/$soname.expsym_cmds, $1)='${wl}-h,$soname.expsym
  _LT_AC_TAGVAR(archive_cmds, $1)='${wl}-h,$soname.expsym_cmds, $1)='${wl}-h,$soname.expsym
  ;;
gnu* | linux* | k*bsd*-gnu)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
tmp_addflag=
  case $cc_basename,$host_cpu in
    pgcc*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
    pgf77* | pgf90* | pgf95*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
  esac
  ;;
  gnu* | linux* | k*bsd*-gnu)
  case $cc_basename,$host_cpu in
    pgcc*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
    pgf77* | pgf90* | pgf95*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
  esac
  ;;
  gnu* | linux* | k*bsd*-gnu)
  case $cc_basename,$host_cpu in
    pgcc*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
    pgf77* | pgf90* | pgf95*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
  esac
  ;;
  gnu* | linux* | k*bsd*-gnu)
  case $cc_basename,$host_cpu in
    pgcc*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
    pgf77* | pgf90* | pgf95*)
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-
      ;;
  esac
  ;;

tmp_addflag=' -nofor_main' ;;
esac
case 'GCC -V 2>&1 | sed 5q' in
*Sun/C*

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="${wl}--whole-archive"; for conv in
$convenience; do test -z "$conv" || new_convenience="$new_convenience,$conv"; done; $echo
"$new_convenience" ${wl}--no-whole-archive'
tmp_sharedflag='-G' ;;
*Sun/F*
	tmp_sharedflag='-G' ;;
*)
tmp_sharedflag='-shared' ;;
esac
_LT_AC_TAGVAR(archive_cmds, $1)="$CC ""$tmp_sharedflag""$tmp_addflag" $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'
fi
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
netbsd*)

if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable $libobjs $deplibs $linker_flags -o $lib'
wlarc=
else
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
fi
solaris*)

if $LD -v 2>&1 | grep 'BFD 2.8' > /dev/null; then
_LT_AC_TAGVAR(ld_shlibs, $1)=no
cat <<EOF 1>&2
*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU

EOF

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*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF

elif $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $[wl]-soname
    $wl$soname -o $lib"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $[wl]-soname
    $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"
else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
::

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
    case 'LD -v 2>&1' in
        *\[[01].* | *\[2.([0-9].* | *\[2.1[[0-5]].*)
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
    cat '<<_LT_EOF 1>&2

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

_LT_EOF
:: *
* if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-rpath,$libdir"
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $[wl]-soname,$[SCOABSPATH:+$[install_libdir]]/\$soname -o $lib"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $[wl]-soname,$[SCOABSPATH:+$[install_libdir]]/\$soname,-retain-symbols-file,$export_symbols -o $lib"
else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
::
esac
::

sunos4*)
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -assert pure-text -Bshareable -o $lib $libobjs $deplibs
$linker_flags'
if SLD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='"$CC -shared $libobjs $deplibs $compiler_flags $wl}-soname $wl$soname -o $lib"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='"$CC -shared $libobjs $deplibs $compiler_flags $wl}-soname $wl$soname $wl}-retain-symbols-file $wl$export_symbols -o $lib"
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
  runpath_var=
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
  fi
else
  # PORTME fill in a description of your system's linker (not GNU ld)
  case $host_os in
    aix3*)
      _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
      _LT_AC_TAGVAR(always_export_symbols, $1)=yes
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)='"$LD -o $output_objdir/$soname $libobjs $deplibs $linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR $AR_FLAGS $lib $output_objdir/$soname'"'
      # Note: this linker hardcodes the directories in LIBPATH if there
      # are no directories specified by -L.
      _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
      if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
        # Neither direct hardcoding nor static linking is supported with a
        # broken collect2.
        _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
      fi
      ;;
    aix[[4-9]]*)
      if test "$host_cpu" = ia64; then
        # On IA64, the linker does run time linking by default, so we don't
        # have to do anything special.
        aix_use_runtimelinking=no
        exp_sym_flag='-Bexport'
        no_entry_flag=""
      else
        ;;
    esac
  esac
fi
If we're using GNU nm, then we don't want the "-C" option.
- -C means demangle to AIX nm, but means don't demangle with GNU nm
if SNM -V 2>&1 | grep 'GNU' > /dev/null; then
  _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -Bpg $libobjs $convenience | awk '{ if ((([$$2] == "T") || ([$$2] == "D") || ([$$2] == "B")) && ([substr]([$$3],1,1) != ".") { print [$$3] } }' | sort -u > $export_symbols' else
  _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -BCpg $libobjs $convenience | awk '{ if ((([$$2] == "T") || ([$$2] == "D") || ([$$2] == "B")) && ([substr]([$$3],1,1) != ".") { print [$$3] } }' | sort -u > $export_symbols'
fi
aix_use_runtimelinking=no
# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in
  aix4.[1-9]|aix4.[1-9].*)
    for ld_flag in $LDFLAGS; do
      if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
        aix_use_runtimelinking=yes
        break
      fi
    done
  ;;
esac

exp_sym_flag=-bexport
no_entry_flag=-bnoentry

  fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mmimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bigtoc to LDFLAGS.

  _LT_AC_TAGVAR(archive_cmds, $1)="$
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:'
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes

  if test "$GCC" = yes; then
case $host_os in
  aix4.[012]|aix4.[012].*)
    # We only want to do this on AIX 4.2 and lower, the check
    # below for broken collect2 doesn't work under 4.3+
    collect2name='${CC} -print-prog-name=collect2'
    if test -f "$collect2name" &&
      strings "$collect2name" | grep resolve_lib_name >/dev/null
    then
      # We have reworked collect2
  fi

else
    # We have old collect2
    _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
    # It fails to find uninstalled libraries when the uninstalled
    # path is not listed in the libpath. Setting hardcode_minus_L
    # to unsupported forces relinking
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-$Llibdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
    fi
  ::
esac

shared_flag=''.shared'
if test "$aix_use_runtimelinking" = yes; then
    shared_flag="$shared_flag ""$w1"-G"
fi
else
    # not using gcc
    if test "$host_cpu" = ia64; then
        # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
        # chokes on -Wl,-G. The following line is correct:
        shared_flag='"-G"
    else
        if test "$aix_use_runtimelinking" = yes; then
            shared_flag="$w1"-G'
        else
            shared_flag="$w1"-bM:SRE'
        fi
    fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
    # Warning - without using the other runtime loading flags (-brtl),
    # -berok will link without error, but may produce a broken library.
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
    # Determine the default libpath from the value encoded in an empty executable.
    _LT_AC_SYS_LIBPATH_AIX
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$w1"-blibpath:$libdir:"$aix_libpath"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC" -o $output_objdir/$soname $libobjs $deplibs
        "$w1"$no_entry_flag" $compiler_flags 'if test "x$allow_undefined_flag" != "x"; then echo
            "$w1"$exp_sym_flag:$export_symbols $shared_flag"
        else
            "$w1"$allow_undefined_flag"
        fi'
    else
        if test "$host_cpu" = ia64; then
            _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$w1"-R $libdir:/usr/lib:/lib'
        else
            _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
            # It fails to find uninstalled libraries when the uninstalled
            # path is not listed in the libpath. Setting hardcode_minus_L
            # to unsupported forces relinking
            _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
            _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-$Llibdir'
            _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
        fi
  ::
esac
_LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC $shared_flag" -o $output_objdir/$soname $libobjs $deplibs ""$\{w1\}$no_entry_flag" $compiler_flags $\{w1\}$[allow_undefined_flag]
"$\{w1\}$exp_sym_flag:\$export_symbols"
else
  # Determine the default libpath from the value encoded in an empty executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$\{w1\}-blibpath:$libdir:'"$aix_libpath"
  # Warning - without using the other run time loading flags,
  # -berok will link without error, but may produce a broken library.
  _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
  # Exported symbols can be pulled into shared objects from archives
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$convenience"
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
  # This is similar to how AIX traditionally builds its shared libraries.
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC $shared_flag" -o $output_objdir/$soname $libobjs $deplibs $\{w1\}-bnoentry $compiler_flags $\{w1\}-bE:$export_symbols$\{allow_undefined_flag\}~$AR $AR_FLAGS
  $output_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;

amigaos*)
  _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
  > $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir &&
    a2ixlibrary -32)'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  # see comment about different semantics on the GNU ld section
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
;

bsdii[45]*)
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=rdynamic
;

cygwin* | mingw* | pw32*)
  # When not using gcc, we currently assume that we are using
  # Microsoft Visual C++.
  # hardcode_libdir_flag_spec is actually meaningless, as there is
  # no search path for DLLs.
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=""
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Tell ltmain to make .lib files, not .a files.
  libext=lib

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# Tell ltmain to make .dll files, not .so files.
shrext_cmds=".dll"
# FIXME: Setting linknames here is a bad hack.
_LT_AC_TAGVAR(archive_cmds, $1)="CC -o $lib $libobjs $compiler_flags 'echo "$deplibs" | $SED -e "\"s/-l\" -link -dll\"-linknames'"
# The linker will automatically build a .lib file if we build a DLL.
_LT_AC_TAGVAR(old_archive_cmds_from_new_cmds, $1)=true
# FIXME: Should let the user specify the lib program.
_LT_AC_TAGVAR(old_archive_cmds, $1)=lib -OUT:$oldlib$oldobjs$old_deplibs'
_LT_AC_TAGVAR(fix_srcfile_path, $1)="cygpath -w "$srcfile"
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
;;

if test "$GCC" = yes ; then
output_verbose_link_cmd='echo'
_LT_AC_TAGVAR(archive_cmds, $1)="CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $lt_dar_single_mod$($lt_dsymutil)"

_LT_AC_TAGVAR(module_cmds, $1)="CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $deplibs $compiler_flags"$($lt_dsymutil)"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,.\^,\,' < $export_symbols > $output_objdir/$libname-symbols.expsym ~ $CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $lt_dar_single_mod$($lt_dsymutil)"

_LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,.\^,\,' < $export_symbols > $output_objdir/$libname-symbols.expsym ~ $CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $deplibs $compiler_flags$($lt_dsymutil)"
else
    case $cc_basename in
    xlc*)
        output_verbose_link_cmd='echo'
_LT_AC_TAGVAR(archive_cmds, $1)="CC -qmkshrobj $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags $wl-install_name $wl'echo $rpath/$soname $xlcverstring'

_LT_AC_TAGVAR(module_cmds, $1)="CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags"

# Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed -e "s,.\^,\,' -e "s,.\^,\,' -e "s,.\^,\,' $export_symbols > $output_objdir/$libname-symbols.expsym ~ $CC -qmshrobj $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags $wl-install_name $wl'echo $rpath/$soname $xlcverstring-nmedit -s $output_objdir/$libname-symbols.expsym $wl"

_LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e "s,.\^,\,' -e "s,.\^,\,' -e "s,.\^,\,' < $export_symbols > $output_objdir/$libname-symbols.expsym ~ $CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags$($lt_dsymutil)"
$export_symbols > $output_objdir/${libname}-symbols.exp$–$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags -nm $output_objdir/${libname}-symbols.exp $’

``
*)
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
  esac

;)

dgux*)
  _LT_AC_TAGVAR(archive_cmds, $1)="/LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

freebsd1*)
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2*)
  _LT_AC_TAGVAR(archive_cmds, $1)="/LD -Bshareable -o $lib $libobjs $deplibs $linker_flags
/usr/lib/c++rt0.o"
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
  _LT_AC_TAGVAR(archive_cmds, $1)="/LD -Bshareable -o $lib $libobjs $deplibs $linker_flags' 
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | dragonfly*)
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -o $lib $libobjs $deplibs $compiler_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;
if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/$soname~$CC -shared -fPIC $\{wl\}+b $\{wl\}$install_libdir -o $output_objdir/$soname $libobjs $deplibs $s linker_flags~test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib''
    else
    _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/$soname~$LD -b +b $install_libdir -o $output_objdir/$soname $libobjs $deplibs $s linker_flags~test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib''
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    ;;
    hpux10*)
        if test "$GCC" = yes -a "$with_gnu_ld" = no; then
            _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $\{wl\}+h $\{wl\}$soname $\{wl\}+b $\{wl\}$install_libdir -o $\{wl\}$lib $\{wl\}$libobjs $\{wl\}$deplibs $\{wl\}$s compiler_flags''
            else
            _LT_AC_TAGVAR(archive_cmds, $1)="$LD -b +h $soname +b $install_libdir -o $lib $libobjs $deplibs $s linker_flags''
            fi
        if test "$with_gnu_ld" = no; then
            _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
            _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
            _LT_AC_TAGVAR(hardcode_direct, $1)=yes
            # hardcode_minus_L: Not really in the search PATH,
            # but as the default location of the library.
            _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
            _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
            ;;
            hpux11*)
                if test "$GCC" = yes -a "$with_gnu_ld" = no; then
                    case $host_cpu in
                        hppa*64*)
                        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $\{wl\}+h $\{wl\}$soname -o $\lib $\libobjs $\deplibs $\s compiler_flags''
                        ;;
ia64*)
 _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $wl+h $wl$soname $wl+nodefaultpath -o $lib Slibobjs $deplibs $compiler_flags"
 ;;
*)
 _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -fPIC $wl+h $wl$soname $wl+b $wl$install_libdir -o $lib Slibobjs $deplibs $compiler_flags"
 ;;
esac else
case $host_cpu in
hppa*64*)
 _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $wl+h $wl$soname -o $lib Slibobjs $deplibs $compiler_flags"
 ;;
ia64*)
 _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $wl+h $wl$soname $wl+nodefaultpath -o $lib Slibobjs $deplibs $deplibs $compiler_flags"
 ;;
*)
 _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $wl+h $wl$soname $wl+b $wl$install_libdir -o $lib Slibobjs $deplibs $compiler_flags"
 ;;
esac fi
if test "$with_gnu_ld" = no; then
 _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wl+b $wl$libdir"
 _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
 case $host_cpu in
hppa*64*jia64*)
 _LT_AC_TAGVAR(hardcode_libdir_flag_spec_id, $1)="+b $libdir"
 _LT_AC_TAGVAR(hardcode_direct, $1)=no
 _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
 ;;
*)
 _LT_AC_TAGVAR(hardcode_direct, $1)=yes
 _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="$wl-E"
# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
 _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
 ;;
esac fi
 ;;
 irix5* | irix6* | nonstopux*)
if test "$GCC" = yes; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
  ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring' ${wl}-update_registry
  ${wl}${output_objdir}/so_locations -o $lib'
else
  _LT_AC_TAGVAR(archive_cmds, $1)="$LD -shared $libobjs $deplibs $linker_flags -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib'
  fi
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)="-rpath $libdir"
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath ${wl}$libdir"
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;

netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags' # a.out
  else
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -shared -o $lib $libobjs $deplibs $linker_flags' # ELF
    fi
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-R$libdir"
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

newsos6)
  _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$[wl]-rpath $[wl]$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  fi
  _LT_AC_TAGVAR(archive_cmds, $1)="$LD -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
if test -f /usr/libexec/ld.so; then
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-R$libdir"
else
  case $host_os in
    openbsd*)
    if test -f /usr/libexec/ld.so; then
      _LT_AC_TAGVAR(hardcode_direct, $1)=yes
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    else
      if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags
        $[wl]-retain-symbols-file,$export_symbols'
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$[wl]-rpath,$libdir'
        _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="$[wl]-E'
      else
        case $host_os in
          openbsd[0-7]|openbsd2.*)
            _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
            _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-R$libdir'
          case $host_os in
            openbsd[0-7].*)
              _LT_AC_TAGVAR(archive_cmds, $1)="$LD -shared -o $lib $libobjs $deplibs $linker_flags'
              _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir'
              _LT_AC_TAGVAR(hardcode_direct, $1)=yes
              _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
              fi
            esac
          esac
          ;;
        esac
      esac
    fi
  esac
else
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='-expect_unresolved /*'
  _LT_AC_TAGVAR(archive_cmds, $1)="LD -shared\{allow_undefined_flag\} $libobjs $deplibs $linker_flags -msym -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry
  ${output_objdir}/so_locations -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="for i in "cat $export_symbols"; do printf "\%s\n" -exported_symbol "$i" >> $lib.exp; done; echo "-hidden" >> $lib.exp~
  LDK -shared\{allow_undefined_flag\} -input $lib.exp $linker_flags $libobjs $deplibs -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib~$rm $lib.exp'

# Both c and cxx compiler support -rpath directly
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
fi

  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

solaris*)
  _LT_AC_TAGVAR(no_undefined_flag, $1)='-z text'
  if test "$GCC" = yes; then
    wlaarc="$wl"
  fi
  _LT_AC_TAGVAR(archive_cmds, $1)="CC -shared \{wl\}-h \{wl\}$soname -o \lib $libobjs $deplibs
  $compiler_flags"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$echo '{ global:" $lib.exp ~cat $export_symbols | $SED -e "s/(.*)/\1/" >> $lib.exp ~$echo "local: *; };" >> $lib.exp~
  CC -shared \{wl\}-M \{wl\}$lib.exp \{wl\}-h \{wl\}$soname -o \lib $libobjs $deplibs $compiler_flags~$rm $lib.exp'
  else
    wlaarc=""
  fi
  _LT_AC_TAGVAR(archive_cmds, $1)="LD -G\{allow_undefined_flag\} -h $soname -o $lib $libobjs $deplibs
  $linker_flags"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$echo '{ global:" $lib.exp ~cat $export_symbols | $SED -e "s/(.*)/\1/" >> $lib.exp ~$echo "local: *; };" >> $lib.exp~
  LD -G\{allow_undefined_flag\} -M $lib.exp -h $soname -o $lib $libobjs $deplibs $linker_flags~$rm $lib.exp'
fi

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

solaris2.[0-5] | solaris2.[0-5].*
  case $host_os in
    *)
  # The compiler driver will combine and reorder linker options,
  # but understands '-z linker_flag'. GCC discards it without '$wl',
  # but is careful enough not to reorder.
  # Supported since Solaris 2.6 (maybe 2.5.1?)
  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wl-z $wl-allextract$convenience $wl-z $wl-defaultextract'
  else
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='-z allextract$convenience -z defaultextract'

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```bash
fi
;;
_esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;

sunos4*)
  if test "x$host_vendor" = xsequent; then
    # Use $CC to link under sequent, because it throws in some extra .o
    # files that make .init and .fini sections work.
    _LT_AC_TAGVAR(archive_cmds, $1)="/cc -G $wl-h $soname -o $lib $libobjs $deplibs $compiler_flags"
else
    _LT_AC_TAGVAR(archive_cmds, $1)="/ld -assert pure-text -Bstatic -o $lib $libobjs $deplibs $linker_flags"
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-L$libdir"
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

sysv4)
  case $host_vendor in
    sni)
      _LT_AC_TAGVAR(archive_cmds, $1)="/ld -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
      _LT_AC_TAGVAR(hardcode_direct, $1)=yes # is this really true???
    ;;
    siemens)
      ## LD is ld it makes a PLAMLIB
      ## CC just makes a GrossModule.
      _LT_AC_TAGVAR(archive_cmds, $1)="/ld -G -o $lib $libobjs $deplibs $linker_flags"
      _LT_AC_TAGVAR(reload_cmds, $1)="/cc -r -o $output$reload_objs"
      _LT_AC_TAGVAR(hardcode_direct, $1)=no
    ;;
    motorola)
      _LT_AC_TAGVAR(archive_cmds, $1)="/ld -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
      _LT_AC_TAGVAR(hardcode_direct, $1)=no #Motorola manual says yes, but my tests say they lie
    ;;
    esac
  esac
  runpath_var='LD_RUN_PATH'
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

sysv4.3*)
  _LT_AC_TAGVAR(archive_cmds, $1)="/ld -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)="-Bexport"
  ;;
```
if test -d /usr/nec; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    runpath_var=LD_RUN_PATH
    hardcode_runpath_var=yes
    _LT_AC_TAGVAR( Id_shlibs, $1)=yes
    fi

if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    fi

if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $[wl]-Bexport:$export_symbols $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G $[wl]-Bexport:$export_symbols $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    fi

# Note: We can NOT use -z defs as we might desire, because we do not
# link with -lc, and that would cause any symbols used from libc to
# always be unresolved, which means just about no library would
# ever link correctly.  If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn't as heavy-handed
# as -z defs.
    _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''test -z "$SCOABSPATH" && echo ${wl}-R,$libdir''
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
    runpath_var=LD_RUN_PATH
    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
        fi

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h,${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
else
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -G ${wl}-h,${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler.flags"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,${SCOABS PATH}:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags"
fi
fi

uts4*)
  _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
fi

*}]

AC_MSG_RESULT([_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)" in
  x|xyes)
    _LT_AC_TAGVAR(archive_cmds, $1)=yes
    if test "$enable_shared" = yes && test "$GCC" = yes; then
      case $_LT_AC_TAGVAR(archive_cmds, $1) in
        *'~')
          # FIXME: we may have to deal with multi-command sequences.
          ;;
          'GCC '*)
          # Test whether the compiler implicitly links with -lc since on some
          # systems, -lgcc has to come before -lc. If gcc already passes -lc
          # to ld, don't add -lc before -lgcc.
          AC_MSG_CHECKING([whether -lc should be explicitly linked in])
          $rm conftest*
          echo "$lt_simple_compile_test_code" > conftest.$ac_ext
          if AC_TRY_EVAL(ac_compile) 2>conftest.err; then
            soname=conftest
            lib=conftest
libobjs=conftest.$ac_objext
deplibs=
wl=\$LT_AC_TAGVAR(lt_prog_compiler_wl, $1)
pic_flag=\$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
compiler_flags=-v
linker_flags=-v
verstring=
output_objdir=. 
libname=conftest
lt_save_allow_undefined_flag=\$LT_AC_TAGVAR(allow_undefined_flag, $1)
\$LT_AC_TAGVAR(allow_undefined_flag, $1)=
if AC_TRY_EVAL(\$LT_AC_TAGVAR(archive_cmds, $1) 2>&1 \| grep " -lc " /dev/null 2>&1)
then
\$LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
else
\$LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
fi
\$LT_AC_TAGVAR(archive_cmds_need_lc, $1)=\$lt_save_allow_undefined_flag
else
cat conftest.err 1>&5
fi
$rm conftest*
AC_MSG_RESULT(\$LT_AC_TAGVAR(archive_cmds_need_lc, $1))
::
esac
fi
::*
esac
]# AC_LIBTOOL_PROG_LD_SHLIBS

# \$LT_AC_FILE_LTDLL_C
# ------------------
# Be careful that the start marker always follows a newline.
AC_DEFUN([\$LT_AC_FILE_LTDLL_C], [ 
  # /ltdll.c starts here */
  #define WIN32_LEAN_AND_MEAN  
  #include <windows.h>
  #undef WIN32_LEAN_AND_MEAN  
  #include <stdio.h>
  #
  #ifndef __CYGWIN__
  #  ifdef __CYGWIN32__
  #    define __CYGWIN__ __CYGWIN32__
  #  endif
  #define __CYGWIN__ __CYGWIN32__
  #  endif
  #endif
  #
  #ifndef cplusplus
  #endif
  #
  #ifdef cplusplus
# extern "C" { 
# #endif  
# BOOL APIENTRY DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);  
# #ifdef __cplusplus  
# }  
# #endif  
#  
# #ifdef __CYGWIN__  
# #include <cygwin/cygwin_dll.h>  
# DECLARE_CYGWIN_DLL( DllMain );  
# #endif  
# HINSTANCE __hDllInstance_base;  
#  
# BOOL APIENTRY  
# DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved)  
# {  
#   __hDllInstance_base = hInst;  
#   return TRUE;  
# }  
# /* ltdll.c ends here */  
})

# _LT_AC_TAGVAR(VARNAME, [TAGNAME])  
#-------------------------------  
AC_DEFUN([_LT_AC_TAGVAR], [ifelse([$2], [], [$1], [$1_$2])])

# old names  
AC_DEFUN([AM_PROG_LIBTOOL], [AC_PROG_LIBTOOL])  
AC_DEFUN([AM_ENABLE_SHARED], [AC_ENABLE_SHARED($@)])  
AC_DEFUN([AM_ENABLE_STATIC], [AC_ENABLE_STATIC($@)])  
AC_DEFUN([AM_DISABLE_SHARED], [AC_DISABLE_SHARED($@)])  
AC_DEFUN([AM_DISABLE_STATIC], [AC_DISABLE_STATIC($@)])  
AC_DEFUN([AM_PROG_LD], [AC_PROG_LD])  
AC_DEFUN([AM_PROG_NM], [AC_PROG_NM])

# This is just to silence aclocal about the macro not being used  
ifelse([AC_DISABLE_FAST_INSTALL])

AC_DEFUN([LT_AC_PROG_GCJ],  
[AC_CHECK_TOOL(GCJ, gcj, no)  
test "x$s[GCJFLAGS+set]" = xset || GCJFLAGS="-g -O2"  
AC_SUBST(GCJFLAGS)  
])

AC_DEFUN([LT_AC_PROG_RC],  
[AC_CHECK_TOOL(RC, windres, no)
Cheap backport of AS_EXECUTABLE_P and required macros
from Autoconf 2.59; we should not use $as_executable_p directly.

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IFS=$as_save_IFS
lt_ac_max=0
lt_ac_count=0

# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
test ! -f $lt_ac_sed && continue
cat /dev/null > conftest.in
lt_ac_count=0
echo $ECHO_N "0123456789"$ECHO_C > conftest.in
# Check for GNU sed and select it if it is found.
if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
lt_cv_path_SED=$lt_ac_sed
break
fi
while true; do
cat conftest.in conftest.in > conftest.tmp
mv conftest.tmp conftest.in
cp conftest.in conftest.nl
echo >> conftest.nl
$lt_ac_sed -e 's/a$//'; < conftest.nl > conftest.out || break
cmp -s conftest.out conftest.nl || break
# 10000 chars as input seems more than enough
test $lt_ac_count -gt 10 && break
lt_ac_count='expr $lt_ac_count + 1'
if test $lt_ac_count -gt $lt_ac_max; then
lt_ac_max=$lt_ac_count
lt_cv_path_SED=$lt_ac_sed
fi
done
done
)
SEDC=$lt_cv_path_SED
AC_SUBST([SED])
AC_MSG_RESULT([SSED])
)

#
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# AM_AUTOMAKE_VERSION(VERSION)
# Automake X.Y traces this macro to ensure aclocal.m4 has been
# generated from the m4 files accompanying Automake X.Y.
# (This private macro should not be called outside this file.)
AC_DEFUN([AM_AUTOMAKE_VERSION],
[am__api_version='1.10'
dnl Some users find AM_AUTOMAKE_VERSION and mistake it for a way to
dnl require some minimum version. Point them to the right macro.
m4_if([$1], [1.10.1], [],
    [AC_FATAL([Do not call $0, use AM_INIT_AUTOMAKE([$1]).])])
])

# _AM_AUTOCONF_VERSION(VERSION)
# -----------------------------
# aclocal traces this macro to find the Autoconf version.
# This is a private macro too. Using m4_define simplifies
# the logic in aclocal, which can simply ignore this definition.
m4_define([_AM_AUTOCONF_VERSION], [])

# AM_SET_CURRENT_AUTOMAKE_VERSION
# -------------------------------
# Call AM_AUTOMAKE_VERSION and AM_AUTOMAKE_VERSION so they can be traced.
# This function is AC_REQUIREd by AC_INIT_AUTOMAKE.
AC_DEFUN([AM_SET_CURRENT_AUTOMAKE_VERSION],
[AM_AUTOMAKE_VERSION([1.10.1])
dnl
m4_ifndef([AC_AUTOCONF_VERSION],
    [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])]
    _AM_AUTOCONF_VERSION(AC_AUTOCONF_VERSION))
])

# AM_AUX_DIR_EXPAND
# -=- Autoconf -=-

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#
# For projects using AC_CONFIG_AUX_DIR([foo]), Autoconf sets
# $ac_aux_dir to '$srcdir/foo'. In other projects, it is set to
# '$srcdir', '$srcdir/..', or '$srcdir/../..'.
#
# Of course, Automake must honor this variable whenever it calls a
# tool from the auxiliary directory. The problem is that $srcdir (and
# therefore $ac_aux_dir as well) can be either absolute or relative,
# depending on how configure is run. This is pretty annoying, since
# it makes $ac_aux_dir quite unusable in subdirectories: in the top
# source directory, any form will work fine, but in subdirectories a
# relative path needs to be adjusted first.
AC_DEFUN([AM_AUX_DIR_EXPAND],
[dnl Rely on autoconf to set up CDPATH properly.
AC_PREREQ([2.50])dnl
# expand $ac_aux_dir to an absolute path
am_aux_dir='cd $ac_aux_dir && pwd'
})

# AM_CONDITIONAL                                            -*- Autoconf -*-
AC_DEFUN([AM_CONDITIONAL],
[AC_PREREQ(2.52)]
ifelse([$1], [TRUE], [AC_FATAL([$0: invalid condition: $1])],
[$1], [FALSE], [AC_FATAL([$0: invalid condition: $1])])
AC_SUBST([$1_TRUE])
AC_SUBST([$1_FALSE])
_AM_SUBST_NOTMAKE([$1_TRUE])
_AM_SUBST_NOTMAKE([$1_FALSE])
if $2; then
 $1_TRUE=
 $1_FALSE='
else
 $1_TRUE='
 $1_FALSE=
fi

AC_CONFIG_COMMANDS_PRE(
[if test -z "${$1_TRUE}" && test -z "${$1_FALSE}"; then
 AC_MSG_ERROR([conditional "$1" was never defined. Usually this means the macro was only invoked conditionally.])
fi])

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#
# serial 9
#
# There are a few dirty hacks below to avoid letting 'AC_PROG_CC' be
# written in clear, in which case automake, when reading aclocal.m4,
# will think it sees a *use*, and therefore will trigger all it's
# C support machinery. Also note that it means that autoscan, seeing
# CC etc. in the Makefile, will ask for an AC_PROG_CC use...

# _AM_DEPENDENCIES(NAME)
# ----------------------
# See how the compiler implements dependency checking.
# NAME is "CC", "CXX", "GCJ", or "OBJC".
# We try a few techniques and use that to set a single cache variable.
#
# We don't AC_REQUIRE the corresponding AC_PROG_CC since the latter was
# modified to invoke _AM_DEPENDENCIES(CC); we would have a circular
# dependency, and given that the user is not expected to run this macro,
# just rely on AC_PROG_CC.
AC_DEFUN([_AM_DEPENDENCIES],
AC_REQUIRE([AM_SET_DEPDIR])
AC_REQUIRE([AM_OUTPUT_DEPENDENCY_COMMANDS])
AC_REQUIRE([AM_MAKE_INCLUDE])
AC_REQUIRE([AM_DEP_TRACK])

ifelse([$1], CC, [depcc="$CC" am_compiler_list=],
        [$1], CXX, [depcc="$CXX" am_compiler_list=],
        [$1], OBJC, [depcc="$OBJC" am_compiler_list=gc3 gcc],
        [$1], UPC, [depcc="$UPC" am_compiler_list=],
        [$1], GCJ, [depcc="$GCJ" am_compiler_list=gc3 gcc],
                [depcc="$1" am_compiler_list=])

AC_CACHE_CHECK([dependency style of $depcc],
        [am_cv_$1_dependencies_compiler_type],
        [if test -z "$AMDEP_TRUE" && test -f "sam_decomp"; then
        # We make a subdir and do the tests there. Otherwise we can end up
        # making bogus files that we don't know about and never remove. For
        # instance it was reported that on HP-UX the gcc test will end up
        # making a dummy file named 'D' -- because 'MD' means 'put the output
        # in D'.
        mkdir confest.dir
        # Copy depcomp to subdir because otherwise we won't find it if we're
        # using a relative directory.
        cp "sam_decomp" confest.dir
        cd confest.dir
        # We will build objects and dependencies in a subdirectory because
        # it helps to detect inapplicable dependency modes. For instance
        # both Tru64's cc and ICC support -MD to output dependencies as a
        # side effect of compilation, but ICC will put the dependencies in
        # the current directory while Tru64 will put them in the object
        # directory.
        mkdir sub
        am_cv_$1_dependencies_compiler_type=none
        if test "$sam_compiler_list" = ""; then
            am_compiler_list=\sed -n \[s/\#*=\(a-zA-Z0-9\)*$/\1/\] < ./depcomp'
        fi
        for depmode in $am_compiler_list; do
            # Setup a source with many dependencies, because some compilers
            # like to wrap large dependency lists on column 80 (with \), and
            # we should not choose a depcomp mode which is confused by this.
            #
            # We need to recreate these files for each test, as the compiler may
            # overwrite some of them when testing with obscure command lines.
            # This happens at least with the AIX C compiler.
            : > sub/confest.c
            for i in 1 2 3 4 5 6; do
                echo '#include "confst$1.h"' >> sub/confest.c
```
# Using `>: sub/confst$i.h` creates only sub/confst1.h with
# Solaris 8's `/usr/`/bin/sh.
touch sub/confst$i.h
done
echo "%{am__include} %{am__quote}sub/confstest.Po%{am__quote}" > confmf

case $depmode in
  nosideeffect)
    # after this tag, mechanisms are not by side-effect, so they'll
    # only be used when explicitly requested
    if test "x$enable_dependency_tracking" = xyes; then
      continue
    else
      break
    fi
  ;;
none) break ;;
esac

# We check with `-c` and `-o` for the sake of the "dashmdstout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle `-M -o`, and we need to detect this.
if depmode=$depmode \ 
  source=sub/confstest.c object=sub/confstest.${OBJEXT-o} \ 
  depfile=sub/confstest.TPo \ 
  $SHELL /depcomp $depcc -c -o sub/confstest.${OBJEXT-o} sub/confstest.c \ 
  >/dev/null 2>confstest.err &&
  grep sub/confst1.h sub/confstest.Po > /dev/null 2>&1 &&
  grep sub/confst6.h sub/confstest.Po > /dev/null 2>&1 &&
  grep sub/confstest.${OBJEXT-o} sub/confstest.Po > /dev/null 2>&1 &&
  ${MAKE-make} -s -f confmf > /dev/null 2>&1; then
  # icc doesn't choke on unknown options, it will just issue warnings
  # or remarks (even with -Werror). So we grep stderr for any message
  # that says an option was ignored or not supported.
  # When given -MP, icc 7.0 and 7.1 complain thusly:
  #  icc: Command line warning: ignoring option '-M'; no argument required
  # The diagnosis changed in icc 8.0:
  #  icc: Command line remark: option '-MP' not supported
  if (grep 'ignoring option' confstest.err ||
    grep 'not supported' confstest.err) >/dev/null 2>&1; then :: else
    am_cv_$1_dependencies_compiler_type=$depmode
    break
  fi
  fi
done

cd ..
rm -rf confstest.dir
else
am_cv_$1_dependencies_compiler_type=none
fi
)
AC_SUBST([$1DEPMODE], [depmode=am_cv_$1_dependencies_compiler_type])
AM_CONDITIONAL([am__fastdep$1], [test "$enable_dependency_tracking" != xno \ 
&& test "$am_cv_$1_dependencies_compiler_type" = gcc3])
)

# AM_SET_DEPDIR
# ------------
# Choose a directory name for dependency files.
# This macro is AC_REQUIREd in _AM_DEPENDENCIES
AC_DEFUN([AM_SET_DEPDIR], [AC_REQUIRE([AM_SET_LEADING_DOT])dnl
AC_SUBST([DEPDIR], ["${am__leading_dot}deps"]dnl
)
)

# AM_DEP_TRACK
# ------------
AC_DEFUN([AM_DEP_TRACK], [AC_ARG_ENABLE(dependency-tracking,
[  --disable-dependency-tracking  speeds up one-time build
--enable-dependency-tracking  do not reject slow dependency extractors])
if test "$enable_dependency_tracking" != xno; then
  am_depcomp="$ac_aux_dir/depcomp"
  AMDEPBACKSLASH='\'
fi
AM_CONDITIONAL([AMDEP], [test "$enable_dependency_tracking" != xno])
AC_SUBST([AMDEPBACKSLASH])dnl
_AM_SUBST_NOTMAKE([AMDEPBACKSLASH])dnl
)

# Generate code to set up dependency tracking.    -*- Autoconf -*-

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#
serial 3

# _AM_OUTPUT_DEPENDENCY_COMMANDS
# -----------------------------
AC_DEFUN([_AM_OUTPUT_DEPENDENCY_COMMANDS],
[for mf in $CONFIG_FILES; do
  # Strip MF so we end up with the name of the file.
  mf='echo "$mf" | sed -e 's/:.*$/f'/

  # Check whether this is an Automake generated Makefile or not.
  # We used to match only the files named 'Makefile.in', but
  # some people rename them; so instead we look at the file content.
  # Grep'ing the first line is not enough: some people post-process
  # each Makefile.in and add a new line on top of each file to say so.
  # Grep'ing the whole file is not good either: AIX grep has a line
  # limit of 2048, but all sed's we know have understand at least 4000.
  if sed -n 's,^#.*generated by automake.*,X,p' "$mf" | grep X >/dev/null 2>&1; then
dirpart='AS_DIRNAME("$mf")'
else
  continue
fi
  # Extract the definition of DEPDIR, am__include, and am__quote
  # from the Makefile without running 'make'.
  DEPDIR='sed -n 's/^DEPDIR = //p' < "$mf"
  test -z "$DEPDIR" && continue
  am__include='sed -n 's/^am__include = //p' < "$mf"
  test -z "am__include" && continue
  am__quote='sed -n 's/^am__quote = //p' < "$mf"
  test -z "am__quote" && continue

  # When using ansi2knr, U may be empty or an underscore; expand it
  U='sed -n 's/^U = //p' < "$mf"
  do
    # Find all dependency output files, they are included files with
    # $(DEPDIR) in their names. We invoke sed twice because it is the
    # simplest approach to changing $(DEPDIR) to its actual value in the
    # expansion.
    for file in 'sed -n "
      s/^$/am__quote/ = ,^((DEPDIR).*)$/am__quote/$/p' <"$mf" | \ 
      sed -e 's/$(DEPDIR)/"$DEPDIR"/g' -e 's/$U//g'; do
      # Make sure the directory exists.
      fdir='AS_DIRNAME(["$file"])'
      AS_MKDIR_P([$dirpart/$fdir])
      # echo "creating $dirpart/$file"
      echo '# dummy' > "$dirpart/$file"
      done
    done
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)
# is enabled.  FIXME.  This creates each '.P' file that we will
# need in order to bootstrap the dependency handling code.
AC_DEFUN([AM_OUTPUT_DEPENDENCY_COMMANDS],
[AC_CONFIG_COMMANDS([depfiles],
   [test x"$AMDEP_TRUE" != x"" || _AM_OUTPUT_DEPENDENCY_COMMANDS],
   [AMDEP_TRUE="$AMDEP_TRUE" ac_aux_dir="$ac_aux_dir")]
])

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# serial 8

# AM_CONFIG_HEADER is obsolete.  It has been replaced by AC_CONFIG_HEADERS.
AU_DEFUN([AM_CONFIG_HEADER], [AC_CONFIG_HEADERS($@)])

# Do all the work for Automake.                             -*- Autoconf -*-

#
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# serial 13

# This macro actually does too much.  Some checks are only needed if
# your package does certain things.  But this isn't really a big deal.

# AM_INIT_AUTOMAKE(PACKAGE, VERSION, [NO-DEFINE])
# AM_INIT_AUTOMAKE([OPTIONS])
# ------------------------------
# The call with PACKAGE and VERSION arguments is the old style
# call (pre autoconf-2.50), which is being phased out.  PACKAGE
# and VERSION should now be passed to AC_INIT and removed from
# the call to AM_INIT_AUTOMAKE.
# We support both call styles for the transition.  After
# the next Automake release, Autoconf can make the AC_INIT
# arguments mandatory, and then we can depend on a new Autoconf
# release and drop the old call support.
AC_DEFUN([AM_INIT_AUTOMAKE],
[AC_PREREQ([2.60])dnl
 dnl Autoconf wants to disallow AM_ names.  We explicitly allow
dnl the ones we care about.
m4_pattern_allow('^AM_[A-Z]+FLAGS$')dnl
AC_REQUIRE([AM_SET_CURRENT_AUTOMAKE_VERSION])dnl
AC_REQUIRE([AC_PROG_INSTALL])dnl
if test "cd $srcdir && pwd" != "pwd" ; then
  # Use -I$(srcdir) only when $(srcdir) != ., so that make's output
  # is not polluted with repeated "-I."
  AC_SUBST([am__isrc], ['-I$(srcdir)'])_AM_SUBST_NOTMAKE([am__isrc])dnl
if test -f $srcdir/config.status; then
  AC_MSG_ERROR([source directory already configured; run "make distclean" there first])
fi
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
  if (cygpath --version) >/dev/null 2>/dev/null; then
    CYGPATH_W='cygpath -w'
  else
    CYGPATH_W=echo
  fi
fi

AC_SUBST([CYGPATH_W])

# Define the identity of the package.
dnl Distinguish between old-style and new-style calls.
m4_ifval($2),
  [m4_ifval($3), [AM_SET_OPTION([no-define])])dnl
AC_SUBST([PACKAGE], [$1])dnl
AC_SUBST([VERSION], [$2]),
  [AM_SET_OPTIONS($1)]dnl
_dnl Diagnose old-style AC_INIT with new-style AM_AUTOMAKE_INIT.
m4_if(m4_ifdef([AC_PACKAGE_NAME], 1)m4_ifdef([AC_PACKAGE_VERSION], 1), 11,,
  [m4_fatal([AC_INIT should be called with package and version arguments])] )dnl
AC_SUBST([PACKAGE], ['AC_PACKAGE_TARNAME'])dnl
AC_SUBST([VERSION], ['AC_PACKAGE_VERSION'])]dnl

_AM_IF_OPTION([no-define],,,
  [AC_DEFINE_UNQUOTED(PACKAGE, "PACKAGE", [Name of package])
  AC_DEFINE_UNQUOTED(VERSION, "$VERSION", [Version number of package])] dnl

# Some tools Automake needs.
AC_REQUIRE([AM_SANITY_CHECK])dnl
AC_REQUIRE([AC_ARG_PROGRAM])dnl
AM_MISSING_PROG(ACLOCAL, aclocal-${am__api_version})
AM_MISSING_PROG(AUTOCONF, autoconf)
AM_MISSING_PROG(AUTOMAKE, automake-${am__api_version})
AM_MISSING_PROG(AUTOHEADER, autoheader)
AM_MISSING_PROG(MAKEINFO, makeinfo)
AM_PROG_INSTALL_SH
AM_PROG_INSTALL_STRIP
AC_REQUIRE([AM_PROG_MKDIR_P])

# We need awk for the "check" target. The system "awk" is bad on
# some platforms.
AC_REQUIRE([AC_PROG_AWK])
AC_REQUIRE([AC_PROG_MAKE_SET])
AC_REQUIRE([AM_SET_LEADING_DOT])

_AM_IF_OPTION([tar-ustar], [AM_PROG_TAR([ustar])],
   [AM_PROG_TAR([pax])],
   [AM_PROG_TAR([v7])])
_AM_IF_OPTION([no-dependencies],
,[AC_PROVIDE_IFELSE([AC_PROG_CC],
   [AM_DEPENDENCIES(CC)],
   [define([AC_PROG_CC],
      defn([AC_PROG_CC])][AM_DEPENDENCIES(CC)])])

_AC_PROVIDE_IFELSE([AC_PROG_CXX],
   [AM_DEPENDENCIES(CXX)],
   [define([AC_PROG_CXX],
      defn([AC_PROG_CXX])][AM_DEPENDENCIES(CXX)])])

_AC_PROVIDE_IFELSE([AC_PROG_OBJC],
   [AM_DEPENDENCIES(OBJC)],
   [define([AC_PROG_OBJC],
      defn([AC_PROG_OBJC])][AM_DEPENDENCIES(OBJC)])])
}
)

# When config.status generates a header, we must update the stamp-h file.
# This file resides in the same directory as the config header
# that is generated. The stamp files are numbered to have different names.

# Autoconf calls _AC_AM_CONFIG_HEADER_HOOK (when defined) in the
# loop where config.status creates the headers, so we can generate
# our stamp files there.
AC_DEFUN([_AC_AM_CONFIG_HEADER_HOOK],
[# Compute $1's index in $config_headers.
_am_arg=$1
_am_stamp_count=1
for _am_header in $config_headers :: do
   case $_am_arg in
      $_am_arg | $_am_arg:* )
         break ::
      * )
         _am_stamp_count='expr $_am_stamp_count + 1' ::
   esac
done
echo "timestamp for $_am_arg" >`AS_DIRNAME(["$_am_arg")/stamp-h]$_am_stamp_count])

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# AM_PROG_INSTALL_SH
#
# Define $install_sh.
AC_DEFUN([AM_PROG_INSTALL_SH],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
install_sh=${install_sh-"$(SHELL) $am_aux_dir/install-sh"}
AC_SUBST(install_sh))

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# serial 2

# Check whether the underlying file-system supports filenames
# with a leading dot. For instance MS-DOS doesn't.
AC_DEFUN([AM_SET_LEADING_DOT],
[rm -rf .tst 2>/dev/null
mkdir .tst 2>/dev/null
if test -d .tst; then
  am__leading_dot=.
else
  am__leading_dot=_
fi
rmdir .tst 2>/dev/null
AC_SUBST([am__leading_dot])]})

# Check to see how 'make' treats includes. -*- Autoconf -*-

#
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# serial 3

# AM_MAKE_INCLUDE()
# Check to see how make treats includes.
AC_DEFUN([AM_MAKE_INCLUDE],
[am_make=${MAKE-make}]
cat > confinc << 'END'
am__doit:
@echo done
.PHONY: am__doit
END
# If we don't find an include directive, just comment out the code.
AC_MSG_CHECKING([for style of include used by $am_make])
am__include="#"
am__quote=
_am_result=none
# First try GNU make style include.
echo "include confinc" > confmf
# We grep out 'Entering directory' and 'Leaving directory'
# messages which can occur if 'w' ends up in MAKEFLAGS.
# In particular we don't look at '\\make:' because GNU make might
# be invoked under some other name (usually "gmake"), in which
# case it prints its new name instead of 'make'.
if test "'$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory''" = "done"; then
  am__include=include
  am__quote=
  _am_result=GNU
fi
# Now try BSD make style include.
if test "'$am__include" = "#"; then
  echo '.include "confinc"' > confmf
  if test "'$am_make -s -f confmf 2> /dev/null'" = "done"; then
    am__include=.include
    am__quote=""
    _am_result=""
  else
    _am_result=BSD
  fi
else
AC_SUBST([am__include])
AC_SUBST([am__quote])
AC_MSG_RESULT([$_am_result])
rm -f confinc confmf
)

# Fake the existence of programs that GNU maintainers use.  -*- Autoconf -*-

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AM_MISSING_PROG(NAME, PROGRAM)
# --------------------------------
AC_DEFUN([AM_MISSING_PROG], [AC_REQUIRE([AM_MISSING_HAS_RUN])
$1=${$1-"${am_missing_run}$2"} AC_SUBST($1)])

AM_MISSING_HAS_RUN
# ---------------------
# Define MISSING if not defined so far and test if it supports --run. 
# If it does, set am_missing_run to use it, otherwise, to nothing. 
AC_DEFUN([AM_MISSING_HAS_RUN], [AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl 
AC_REQUIRE_AUX_FILE([missing])dnl
test x"${MISSING+set}" = xset || MISSING="${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
   am_missing_run="$MISSING --run "
else
   am_missing_run=
   AC_MSG_WARN(['missing' script is too old or missing])
fi
])

AM_PROG_MKDIR_P
# -----------
# Check for 'mkdir -p'. 
AC_DEFUN([AM_PROG_MKDIR_P], [AC_PREREQ([2.60])dnl
AC_REQUIRE([[AC_PROG_MKDIR_P]]dnl
dnl Automake 1.8 to 1.9.6 used to define mkdir_p. We now use MKDIR_P, 
dnl while keeping a definition of mkdir_p for backward compatibility. 
dnl @MKDIR_P@ is magic: AC_OUTPUT adjusts its value for each Makefile. 
dnl However we cannot define mkdir_p as @$(MKDIR_P)@ for the sake of 
dnl Makefile.ins that do not define MKDIR_P, so we do our own 
dnl adjustment using top_builddir (which is defined more often than 
dnl MKDIR_P).
AC_SUBST([mkdir_p], ["$MKDIR_P"])
dnl
case $mkdir_p in
   [[/$]]* | ?:[[/]]* ) ;
   */*) mkdir_p="$S(top_builddir)/$mkdir_p" ;;
   esac
)

# Helper functions for option handling.          -*- Autoconf -*-

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# serial 3

# _AM_MANGLE_OPTION(NAME)
# -----------------------
AC_DEFUN([_AM_MANGLE_OPTION],
   [[_AM_OPTION_]m4_bpatsubst($1, [[^a-zA-Z0-9_].], [_.])])

# _AM_SET_OPTION(NAME)
# ----------------------
# Set option NAME. Presently that only means defining a flag for this option.
AC_DEFUN([_AM_SET_OPTION],
   [m4_define(_AM_MANGLE_OPTION([$1]), 1)])

# _AM_SET_OPTIONS(OPTIONS)
# ------------------------
# OPTIONS is a space-separated list of Automake options.
AC_DEFUN([_AM_SET_OPTIONS],
   [AC_FOREACH([_AM_Option], [$1], [._AM_SET_OPTION(_AM_Option)])])

# _AM_IF_OPTION(OPTION, IF-SET, [IF-NOT-SET])
# -------------------------------------------
# Execute IF-SET if OPTION is set, IF-NOT-SET otherwise.
AC_DEFUN([_AM_IF_OPTION],
   [m4_ifset(_AM_MANGLE_OPTION([$1]), [$2], [$3])])

# Check to make sure that the build environment is sane.  -*- Autoconf -*-

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# serial 4

# AM_SANITY_CHECK
# -----------
AC_DEFUN([AM_SANITY_CHECK],
[AC_MSG_CHECKING([whether build environment is sane])
# Just in case
sleep 1
echo timestamp > conftest.file
# Do 'set' in a subshell so we don't clobber the current shell's
# arguments. Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (        
         set X 'ls -Lt $srcdir/configure conftest.file 2> /dev/null'
         if test "$[*]" = "X"; then
             # -L didn't work.
             set X 'ls -t $srcdir/configure conftest.file'
         fi
         rm -f conftest.file
         if test "$[*]" != "X $srcdir/configure conftest.file" \        & & test "$[*]" != "X conftest.file $srcdir/configure"; then
            # If neither matched, then we have a broken ls. This can happen
            # if, for instance, CONFIG_SHELL is bash and it inherits a
            # broken ls alias from the environment. This has actually
            # happened. Such a system could not be considered "sane".
            AC_MSG_ERROR([ls -t appears to fail. Make sure there is not a broken
            alias in your environment])
         fi
         test "$[2]" = conftest.file
     )
     then
         # Ok.
         :
     else
         AC_MSG_ERROR([newly created file is older than distributed files!
Check your system clock])
     fi
AC_MSG_RESULT(yes))

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# AM_PROG_INSTALL_STRIP
# ---------------------
# One issue with vendor 'install' (even GNU) is that you can't
# specify the program used to strip binaries. This is especially
# annoying in cross-compiling environments, where the build's strip
# is unlikely to handle the host's binaries.
# Fortunately install-sh will honor a STRIPPROG variable, so we
# always use install-sh in 'make install-strip', and initialize
# STRIPPROG with the value of the STRIP variable (set by the user).
AC_DEFUN([AM_PROG_INSTALL_STRIP],
[AC_REQUIRE([AM_PROG_INSTALL_SH])dnl
# Installed binaries are usually stripped using 'strip' when the user
# run 'make install-strip'. However 'strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the 'STRIP' environment variable to overrule this program.
# Don't test for $cross_compiling = yes, because it might be 'maybe'.
if test "$cross_compiling" != no; then
  AC_CHECK_TOOL([STRIP], [strip], :)  
fi
INSTALL_STRIP_PROGRAM="$(install_sh) -c -s"
AC_SUBST([INSTALL_STRIP_PROGRAM])

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# _AM_SUBST_NOTMAKE(VARIABLE)
# ---------------------------
# Prevent Automake from outputting VARIABLE = @VARIABLE@ in Makefile.in.
# This macro is traced by Automake.
AC_DEFUN([_AM_SUBST_NOTMAKE])

# Check how to create a tarball.                  -*- Autoconf -*-
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# serial 2

# _AM_PROG_TAR(FORMAT)
# --------------------
# Check how to create a tarball in format FORMAT.
# FORMAT should be one of 'v7', 'ustar', or 'pax'.
# Substitute a variable $(am__tar) that is a command
# writing to stdout a FORMAT-tarball containing the directory
# $tardir.
#     tardir=directory && $(am__tar) > result.tar
#
# Substitute a variable $(am__untar) that extract such
# a tarball read from stdin.
#     $(am__untar) < result.tar

AC_DEFUN([_AM_PROG_TAR],
    [# Always define AMTAR for backward compatibility.
    AM_MISSING_PROG([AMTAR], [tar])
    m4_if([$1], [v7],
        [am__tar='${AMTAR} chof - "$$tardir"'; am__untar='${AMTAR} xf -'],
        [m4_case([$1], [ustar],,, [pax],,
                [m4_fatal([Unknown tar format])] )]
    AC_MSG_CHECKING([how to create a $1 tar archive])
    # Loop over all known methods to create a tar archive until one works.
    _am_tools='gnutar m4_if([$1], [ustar], [plaintar]) pax cpio none'
    _am_tools=${am_cv_prog_tar_$1-$_am_tools}
    # Do not fold the above two line into one, because Tru64 sh and
    # Solaris sh will not grok spaces in the rhs of '-'.
    for _am_tool in $_am_tools
    do
        case $_am_tool in
            gnutar)
                for _am_tar in tar gnutar gtar;
                do
                    AM_RUN_LOG([$_am_tar --version]) && break
                done
                am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [pax]) -chf - "$$tardir"
                am__tar_="$_am_tar --format=m4_if([$1], [pax], [posix], [pax]) -chf - "$tardir"
                am__untar="$_am_tar -xf -"
                ;;
            plaintar)
                # Must skip GNU tar: if it does not support --format= it doesn't create
                # ustar tarball either.
                (tar --version) >/dev/null 2>&1 && l && continue
                am__tar='tar chf - "$$tardir"'
                am__tar_='tar chf - "$tardir"
                am__untar='tar xf -'
                ;;
            pax)
                am__tar='pax -L -x $1 -w "$$tardir"
                am__tar_='pax -L -x $1 -w "$tardir"
                am__untar='pax -r'
            esac
    done
)
cpio)
    am__tar='find "\$tardir" -print | cpio -o -H $1 -L'
    am__tar_='find "$tardir" -print | cpio -o -H $1 -L'
    am__untar='cpio -i -H $1 -d'

;)
none)
    am__tar=false
    am__tar_=false
    am__untar=false
;)
esac

# If the value was cached, stop now. We just wanted to have am__tar
# and am__untar set.
test -n "\$[am_cv_prog_tar_$1]" && break

# tar/untar a dummy directory, and stop if the command works
rm -rf conftest.dir
mkdir conftest.dir
echo GrepMe > conftest.dir/file
    AM_RUN_LOG([tardir=conftest.dir && eval $am__tar_ >conftest.tar])
rm -rf conftest.dir
if test -s conftest.tar; then
    AM_RUN_LOG([$am__untar <conftest.tar])
    grep GrepMe conftest.dir/file >/dev/null 2>&1 && 1 && break
fi
done
rm -rf conftest.dir

AC_CACHE_VAL([am_cv_prog_tar_$1], [am_cv_prog_tar_$1=$_am_tool])
AC_MSG_RESULT([$am_cv_prog_tar_$1])
AC_SUBST([am__tar])
AC_SUBST([am__untar])
} # _AM_PROG_TAR

1.764 lucene 7.7.0
8c831daf4eb41153c25ddb152501ab5bae3ea3
d5
1.764.1 Available under license:

JMatIO is a JAVA library to read/write/manipulate with Matlab binary MAT-files.

If you would like to comment, improve, criticize the project please email me: wgradkowski@gmail.com

or visit JMatIO project page at Sourceforge:
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Carrot2 Project

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jackson-jq
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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo

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Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing").
It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.salaranta@iki.fi>).

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David Megginson, david@megginson.com
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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
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It is currently developed by a community of developers, as well as supported
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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before analysis is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.
Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

```
[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----
```

[IMPORTANT]
====
The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.
====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., you cannot copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

```
[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----
```

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1.769 python-jsonpatch 1.2 4.el7

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1.770 redis-store 1.6.0

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

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

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

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

   c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
   License instead of this License to a given copy of the Library. To do
   this, you must alter all the notices that refer to this License, so
   that they refer to the ordinary GNU General Public License, version 2,
   instead of to this License. (If a newer version than version 2 of the
   ordinary GNU General Public License has appeared, then you can specify
   that version instead if you wish.) Do not make any other change in
   these notices.

   Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
<sect1 id="chapter-legal">
<title id="title-legal">GStreamer Legal Issues</title>
<para>
This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the <ulink url="http://www.fsf.org/">FSF lawyers</ulink>, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by <ulink url="http://www.fluendo.com/">Fluendo</ulink> in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.
</para>
Can someone distribute the combination of
GStreamer, the LGPL library
MyPlayer, a GPL playback application
The binary-only Sorenson decoder
together in one distribution/operating system? If not, what needs to be changed to make this possible?

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

Note: MyPlayer is a completely fictitious application at the time of writing.

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above. Can Apple distribute this binary-only plugin?
Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in?

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway? If he/she visits the US, can he/she be arrested?

Yes, he can. No, there are no criminal penalties for patent infringement in the US.
Can someone from the US distribute software covered by US patents under the GPL to people in Norway? To people in the US?

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

The GPL and LGPL say (sections 7 and 11):

If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts
with the applicable patents?

</para>
</question>

<answer>

<para>
The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

</para>
</answer>

<qandaentry>

<question id="legal-gpl-and-binary">

<para>
Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>
</question>

<answer>

<para>
No.

</para>
</answer>

<qandaentry>

<question id="legal-gpl-patent-distribution">

<para>
Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3?

</para>
</question>

<answer>

<para>
The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.

</para>
</answer>
If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.

1.775 jersey-container-servlet-core 2.14
1.775.1 Available under license :
CDDL+GPL License
http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.776 bolt 1.6.0
1.776.1 Available under license :
Apache-2.0

1.777 elfutils 0.163 3.el7
1.777.1 Available under license :
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Version 2, June 1991

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Preamble

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When we speak of free software, we are referring to freedom, not
Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program
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3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

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      source code, which must be distributed under the terms of Sections
      1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
      years, to give any third party, for a charge no more than your
      cost of physically performing source distribution, a complete
      machine-readable copy of the corresponding source code, to be
      distributed under the terms of Sections 1 and 2 above on a medium
      customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
      to distribute corresponding source code. (This alternative is
      allowed only for noncommercial distribution and only if you
      received the program in object code or executable form with such
      an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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- Expat: XML parser library.
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Written by: Philip Hazel
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For example, on rare occasions, there may be a special need to
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library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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

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

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

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

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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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implementation of MCS (Mellor-Crummey/Scott) locks.
2015

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

## Additional flags when building libraries and with threads
THREEDCPPFLAGS = -D_REENTRANT
LBCPPFLAGS =

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

## Bind internal references

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

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

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

## End BSD-specific setup

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Version 2, June 1991

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

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* /opt/cola/permits/1155874414_1619073748.89/0/lua-lua-v5-2-2-0-gc8e96d6-1-tar-gz/lua-lua-c8e96d6/lua.h

1.794 slang 2.2.4 11.el7

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1.797 perl-text-unidecode 0.04 20.el7

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This package was created by Mark Mickan <mmickan@debian.org> from sources which can be found at ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz

It is partly based on the libjpeg6a package originally put together by Andy Guy <awpguy@acs.ucalgary.ca> and later maintained by Mark Mickan.

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1.803 file 5.11-37.el7

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1.804 reflections 0.9.11

1.805 animal-sniffer-annotation 1.17

1.806 commons-compress 1.19
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1.807 matplotlib 1.5.1

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StartFontMetrics 2.0
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Comment UniqueID 5000832
FontName CMTT10
EncodingScheme FontSpecific
FullName CMTT10
FamilyName Computer Modern
Weight Medium
ItalicAngle 0.0
IsFixedPitch true
Version 1.00B
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -4 -235 731 800
CapHeight 611.111
XHeight 430.556
Ascender 611.111
Descender -222.222
Comment FontID CMTT
Comment DesignSize 10 (pts)
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Comment Space 525 0 0
Comment ExtraSpace 525
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Open Source Used in Secure Workload 3.6.1.1 10334
Open Source Used In Secure Workload 3.6.1.1  10344
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Open Source Used In Secure Workload 3.6.1.1  10391
KPX ydieresis comma -37
KPX ydieresis period -37
EndKernPairs
EndKernData
EndFontMetrics
StartFontMetrics 4.1
Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Thu May 1 15:12:25 1997
Comment UniqueID 43064
Comment VMusage 30820 39997
FontName Symbol
FullName Symbol
FamilyName Symbol
Weight Medium
ItalicAngle 0
IsFixedPitch false
CharacterSet Special
FontBBox -180 -293 1090 1010
UnderlinePosition -100
UnderlineThickness 50
Version 001.008
Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.
EncodingScheme FontSpecific
StdHW 92
StdVW 85
StartCharMetrics 190
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclaim ; B 128 -17 240 672 ;
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C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;
C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;
C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;
C 38 ; WX 778 ; N ampersand ; B 41 -18 750 661 ;
C 39 ; WX 439 ; N suchthat ; B 31 0 681 705 ;
C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;
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C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;
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C 52 ; WX 500 ; N four ; B 15 0 469 685 ;
C 53 ; WX 500 ; N five ; B 32 -14 445 690 ;
from http://www.huyng.com/posts/sane-color-scheme-for-matplotlib/

patch.linewidth: 0.5
patch.facecolor: 348ABD  # blue
patch.edgecolor: EEEEEE
patch.antialiased: True

font.size: 10.0

axes.facecolor: E5E5E5
axes.edgecolor: white
axes.linewidth: 1
axes.grid: True
axes.titlesize: x-large
axes.labelsize: large
axes.labelcolor: 555555
axes.axisbelow: True           # grid/ticks are below elements (e.g., lines, text)

axes.prop_cycle: cycler('color', ['E24A33', '348ABD', '988ED5', '777777', 'FBC15E', '8EBA42', 'FFB5B8'])
    # E24A33 : red
    # 348ABD : blue
    # 988ED5 : purple
C -1 ; WX 556 ; N eth ; B 35 -15 522 737 ;
C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;
C -1 ; WX 667 ; N Yacute ; B 14 0 653 929 ;
C -1 ; WX 260 ; N brokenbar ; B 94 -19 167 737 ;
C -1 ; WX 834 ; N onehalf ; B 43 -19 773 703 ;
EndCharMetrics
StartKernData
StartKernPairs 250

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KPX A v -40
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KPX A V -70
KPX A U -50
KPX A T -120
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B period -20
KPX B comma -20
KPX B U -10

KPX C period -30
KPX C comma -30

KPX D period -70
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KPX D Y -90
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KPX D A -40

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KPX F α -30
KPX F e -30
KPX F comma -150
KPX F a -50
KPX F A -80

KPX J u -20
KPX J period -30
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KPX w e -10
KPX w comma -60
KPX w a -15

KPX x e -30

KPX y period -100
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KPX y e -20
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KPX y a -20

KPX z o -15
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EndKernData
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The Gnome Project

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Comment VMusage 47727 58752
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<td>Ydieresis colon</td>
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</tr>
<tr>
<td>Ydieresis comma</td>
<td>-92</td>
</tr>
<tr>
<td>Ydieresis e</td>
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<tr>
<td>Ydieresis eacute</td>
<td>-92</td>
</tr>
<tr>
<td>Ydieresis ecaron</td>
<td>-92</td>
</tr>
<tr>
<td>Ydieresis ecircumflex</td>
<td>-92</td>
</tr>
<tr>
<td>Ydieresis edieresis</td>
<td>-52</td>
</tr>
<tr>
<td>Ydieresis edotaccent</td>
<td>-92</td>
</tr>
</tbody>
</table>
KPX Ydieres is egrave -52
KPX Ydieres is emacron -52
KPX Ydieres is eogonek -92
KPX Ydieres is hyphen -74
KPX Ydieres is i -74
KPX Ydieres is iacute -74
KPX Ydieres is icircumflex -34
KPX Ydieres is idieresis -34
KPX Ydieres is igrave -34
KPX Ydieres is imacron -34
KPX Ydieres is iogonek -74
KPX Ydieres is o -92
KPX Ydieres is oacute -92
KPX Ydieres is ocircumflex -92
KPX Ydieres is odieresis -92
KPX Ydieres is ograve -92
KPX Ydieres is ohungarumlaut -92
KPX Ydieres is omacron -92
KPX Ydieres is oslash -92
KPX Ydieres is otilde -92
KPX Ydieres is period -92
KPX Ydieres is semicolon -65
KPX Ydieres is u -92
KPX Ydieres is uacute -92
KPX Ydieres is ucircumflex -92
KPX Ydieres is udieresis -92
KPX Ydieres is ugrave -92
KPX Ydieres is uhungarumlaut -92
KPX Ydieres is umacron -92
KPX Ydieres is uogonek -92
KPX Ydieres is uring -92
KPX a g -10
KPX a gbreve -10
KPX a gcommaaccent -10
KPX aacute g -10
KPX aacute gbreve -10
KPX aacute gcommaaccent -10
KPX abreve g -10
KPX abreve gbreve -10
KPX abreve gcommaaccent -10
* Released under the MIT license
* http://jquery.org/license
* 
* Date: 2015-04-28T16:19Z
*/

Comment found in jQuery UI source code:

/*! jQuery UI - v1.11.4 - 2015-03-11
* http://jqueryui.com
* Includes: core.js, widget.js, mouse.js, position.js, accordion.js, autocomplete.js, button.js, datepicker.js, dialog.js, draggable.js, droppable.js, effect.js, effect-blind.js, effect-bounce.js, effect-clip.js, effect-drop.js, effect-explode.js, effect-fade.js, effect-fold.js, effect-highlight.js, effect-puff.js, effect-pulsate.js, effect-scale.js, effect-shake.js, effect-size.js, effect-slide.js, effect-transfer.js, menu.js, progressbar.js, resizable.js, selectable.js, selectmenu.js, slider.js, sortable.js, spinner.js, tabs.js, tooltip.js
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StartFontMetrics 2.0
Comment Creation Date: Thu Mar 15 12:08:57 1990
Comment UniqueID 28407
Comment VMusage 7614 43068
FontName Helvetica-Narrow-BoldOblique
FullName Helvetica Narrow Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
FontBBox -143 -228 913 962
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StartCharMetrics 228
C 32 ; WX 228 ; N space ; B 0 0 0 0 ;
C 33 ; WX 273 ; N exclamation ; B 77 0 325 718 ;
C 34 ; WX 389 ; N quotationdbl ; B 158 447 433 718 ;
C 35 ; WX 456 ; N numbersign ; B 49 0 528 698 ;
C 36 ; WX 456 ; N dollar ; B 55 -115 510 775 ;
C 37 ; WX 729 ; N percent ; B 112 -19 739 710 ;
C 38 ; WX 592 ; N ampersand ; B 73 -19 600 718 ;
C 39 ; WX 228 ; N quotationright ; B 137 445 297 718 ;
C 40 ; WX 273 ; N parenthesesleft ; B 62 -208 385 734 ;
C 41 ; WX 273 ; N parenthesesright ; B -21 -208 302 734 ;
C 42 ; WX 319 ; N asterisk ; B 120 445 394 718 ;
C 43 ; WX 479 ; N plus ; B 67 0 500 710 ;
C 44 ; WX 228 ; N comma ; B 23 -168 201 146 ;
C 45 ; WX 273 ; N hyphen ; B 60 215 311 345 ;
C 46 ; WX 228 ; N period ; B 52 0 201 146 ;
C 47 ; WX 228 ; N slash ; B -30 -19 383 737 ;
C 48 ; WX 456 ; N zerospace ; B 71 -19 506 710 ;
C 49 ; WX 456 ; N one ; B 142 0 434 710 ;
### Classic matplotlib plotting style as of v1.5

#### LINES

# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more information on line properties.

- **lines.linewidth**: 1.0  # line width in points
- **lines.linestyle**: '- '  # solid line
- **lines.color**: 'b'  # has no affect on plot(); see axes.prop_cycle
- **lines.marker**: None  # the default marker
- **lines.markeredgewidth**: 0.5  # the line width around the marker symbol
- **lines.markersize**: 6  # markersize, in points
- **lines.dash_joinstyle**: 'round'  # miter|round|bevel
- **lines.dash_capstyle**: 'butt'  # butt|round|projecting
- **lines.solid_joinstyle**: 'round'  # miter|round|bevel
- **lines.solid_capstyle**: 'projecting'  # butt|round|projecting
- **lines.antialiased**: True  # render lines in antialiased (no jaggies)

#### Marker props

- **markers.fillstyle**: 'full'

#### PATCHES

# Patches are graphical objects that fill 2D space, like polygons or circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches

- **patch.linewidth**: 1.0  # edge width in points
- **patch.facecolor**: 'b'
- **patch.edgecolor**: 'k'
- **patch.antialiased**: True  # render patches in antialiased (no jaggies)

#### FONT

# font properties used by text.Text. See
# http://matplotlib.org/api/font_manager_api.html for more

# information on font properties. The 6 font properties used for font
# matching are given below with their default values.

# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.

# The font.style property has three values: normal (or roman), italic
or oblique. The oblique style will be used for italic, if it is not present.

The font.variant property has two values: normal or small-caps. For TrueType fonts, which are scalable fonts, small-caps is equivalent to using a font size of ‘smaller’, or about 83% of the current font size.

The font.weight property has effectively 13 values: normal, bold, bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as 400, and bold is 700. bolder and lighter are relative values with respect to the current weight.

The font.stretch property has 11 values: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, semi-expanded, expanded, extra-expanded, ultra-expanded, wider, and narrower. This property is not currently implemented.

The font.size property is the default font size for text, given in pts. 12pt is the standard value.

font.family : sans-serif
font.style : normal
font.variant : normal
font.weight : normal
font.stretch : normal

# note that font.size controls default text sizes. To configure special text sizes tick labels, axes, labels, title, etc, see the rc settings for axes and ticks. Special text sizes can be defined relative to font.size, using the following values: xx-small, x-small, small, medium, large, x-large, xx-large, larger, or smaller
font.size : 12.0
font.serif : Bitstream Vera Serif, DejaVu Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman, Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
font.sans-serif: Bitstream Vera Sans, DejaVu Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif
font.cursive : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
font.fantasy : Comic Sans MS, Chicago, Charcoal, ImpactWestern, Humor Sans, fantasy
font.monospace : Bitstream Vera Sans Mono, DejaVu Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT

# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties

text.color : k
LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex

```text
# LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex

text.usetex : False # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list

text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.

text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphix,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

text.latex.preview : False

text.dvipng.hack : None # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.

text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.
```
# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
mathtext.cal : cursive
mathtext.rm : serif
mathtext.tt : monospace
mathtext.it : serif:italic
mathtext.bf : serif:bold
mathtext.sf : sans-serif
mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
                   # 'stixsans' or 'custom'
mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern
                          # fonts when a symbol can not be found in one of
                          # the custom math fonts.
mathtext.default : it # The default font to use for math.
                   # Can be any of the LaTeX font names, including
                   # the special name "regular" for the same font
                   # used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default font sizes for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
axes.hold : True # whether to clear the axes by default on
axes.facecolor : w # axes background color
axes.edgecolor : k # axes edge color
axes.linewidth : 1.0 # edge linewidth
axes.grid : False # display grid or not
axes.grid.which : major
axes.grid.axis : both
axes.titlesize : large # fontsize of the axes title
axes.titleweight : normal # font weight for axes title
axes.labelsize : medium # fontsize of the x any y labels
axes.labelpad : 5.0 # space between label and axis
axes.labelweight : normal # weight of the x and y labels
axes.labelcolor : k
axes.axisbelow : False # whether axis gridlines and ticks are below
                   # the axes elements (lines, text, etc)
axes.formatter.limits : -7, 7 # use scientific notation if log10
                       # of the axis range is smaller than the
                       # first or larger than the second
axes.formatter.use_locale : False # When True, format tick labels
                               # according to the user's locale.
# For example, use ‘,’ as a decimal
# separator in the fr_FR locale.
axes.formatter.use_mathtext : False # When True, use mathtext for scientific
# notation.
axes.formatter.useoffset      : True    # If True, the tick label formatter
    # will default to labeling ticks relative
    # to an offset when the data range is very
    # small compared to the minimum absolute
    # value of the data.

axes.unicode_minus  : True    # use unicode for the minus symbol
    # rather than hyphen. See
    # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
axes.prop_cycle    : cycler('color', 'bgrcmyk')
    # color cycle for plot lines
    # as list of string colorspecs:
    # single letter, long name, or
    # web-style hex
axes.xmargin        : 0  # x margin.  See `axes.Axes.margins`
axes.ymargin        : 0  # y margin See `axes.Axes.margins`
axes.spines.bottom  : True
axes.spines.left    : True
axes.spines.right   : True
axes.spines.top     : True
polaraxes.grid      : True    # display grid on polar axes
axes3d.grid         : True    # display grid on 3d axes

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
xtick.major.size     : 4      # major tick size in points
xtick.minor.size     : 2      # minor tick size in points
xtick.minor.visible  : False
xtick.major.width    : 0.5    # major tick width in points
xtick.minor.width    : 0.5    # minor tick width in points
xtick.major.pad      : 4      # distance to major tick label in points
xtick.minor.pad      : 4      # distance to the minor tick label in points
xtick.color          : k      # color of the tick labels
xtick.labelsize      : medium # fontsize of the tick labels
xtick.direction      : in     # direction: in, out, or inout

ytick.major.size     : 4      # major tick size in points
ytick.minor.size     : 2      # minor tick size in points
ytick.minor.visible  : False
ytick.major.width    : 0.5    # major tick width in points
ytick.minor.width    : 0.5    # minor tick width in points
ytick.major.pad      : 4      # distance to major tick label in points
ytick.minor.pad      : 4      # distance to the minor tick label in points
ytick.color          : k      # color of the tick labels
ytick.labelsize : medium  # fontsize of the tick labels
ytick.direction : in  # direction: in, out, or inout

### GRIDS
grid.color : k  # grid color
grid.linestyle : :  # dotted
grid.linewidth : 0.5  # in points
grid.alpha : 1.0  # transparency, between 0.0 and 1.0

### Legend
legend.fancybox : False  # if True, use a rounded box for the
# legend, else a rectangle
legend.loc : upper right
legend.isaxes : True  # this option is internally ignored
legend.numpoints : 2  # the number of points in the legend line
legend.fontsize : large
legend.borderpad : 0.4  # border whitespace in fontsize units
legend.markerscale : 1.0  # the relative size of legend markers vs. original
# the following dimensions are in axes coords
legend.labelspacing : 0.5  # the vertical space between the legend entries in fraction of fontsize
legend.handlelength : 2.  # the length of the legend lines in fraction of fontsize
legend.handleheight : 0.7  # the height of the legend handle in fraction of fontsize
legend.handletextpad : 0.8  # the space between the legend line and legend text in fraction of fontsize
legend.borderaxespad : 0.5  # the border between the axes and legend edge in fraction of fontsize
legend.columnspacing : 2.  # the border between the axes and legend edge in fraction of fontsize
legend.shadow : False
legend.frameon : True  # whether or not to draw a frame around legend
legend.framealpha : None  # opacity of of legend frame
legend.scatterpoints : 3  # number of scatter points
legend.facecolor : inherit  # legend background color (when None inherits from axes.facecolor)
legend.edgecolor : inherit  # legend edge color (when None inherits from axes.facecolor)

### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
figure.titlesize : medium  # size of the figure title
figure.titleweight : normal  # weight of the figure title
figure.figsize : 8, 6  # figure size in inches
figure.dpi : 80  # figure dots per inch
figure.facecolor : 0.75  # figure facecolor; 0.75 is scalar gray
figureedgecolor : w  # figure edgecolor
figure.autolayout : False  # When True, automatically adjust subplot
# parameters to make the plot fit the figure
figure.max_open_warning : 20  # The maximum number of figures to open through
# the pyplot interface before emitting a warning.
# If less than one this feature is disabled.
figure.frameon : True

# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
figure.subplot.left : 0.125 # the left side of the subplots of the figure
figure.subplot.right : 0.9  # the right side of the subplots of the figure
figure.subplot.bottom : 0.1  # the bottom of the subplots of the figure
figure.subplot.top   : 0.9  # the top of the subplots of the figure
figure.subplot.wspace : 0.2  # the amount of width reserved for blank space between subplots
figure.subplot.hspace : 0.2  # the amount of height reserved for white space between subplots

### IMAGES
image.aspect : equal         # equal | auto | a number
image.interpolation  : bilinear # see help(imshow) for options
image.cmap   : jet           # gray | jet etc...
image.lut    : 256            # the size of the colormap lookup table
image.origin : upper         # lower | upper
image.resample : False
image.composite_image : True

### CONTOUR PLOTS
contour.negative_linestyle : dashed # dashed | solid
contour.corner_mask : True

# errorbar props
errorbar.capsize: 3

### Boxplots
boxplot.bootstrap: None
boxplot.boxprops.color: b
boxplot.boxprops.linestyle: -
boxplot.boxprops.linewidth: 1.0
boxplot.capprops.color: k
boxplot.capprops.linestyle: -
boxplot.capprops.linewidth: 1.0
boxplot.flierprops.color: b
boxplot.flierprops.linestyle: -
boxplot.flierprops.linewidth: 1.0
boxplot.flierprops.marker: +
boxplot.flierprops.markeredgecolor: k
boxplot.flierprops.markercolor: b
boxplot.flierprops.markersize: 6.0
boxplot.meanline: False
boxplot.meanprops.color: r
boxplot.meanprops.linestyle: -
boxplot.meanprops.linewidth: 1.0
boxplot.medianprops.color: r
boxplot.medianprops.linestyle: -
boxplot.medianprops.linewidth: 1.0
boxplot.notch: False
boxplot.patchartist: False
boxplot.showbox: True
boxplot.showcaps: True
boxplot.showfliers: True
boxplot.showmeans: False
boxplot.vertical: True
boxplot.whiskerprops.color: b
boxplot.whiskerprops.linestyle: --
boxplot.whiskerprops.linewidth: 1.0
boxplot.whiskers: 1.5

### Agg rendering
### Warning: experimental, 2008/10/10
agg.path.chunksize : 0           # 0 to disable; values in the range
# 10000 to 100000 can improve speed slightly
# and prevent an Agg rendering failure
# when plotting very large data sets,
# especially if they are very gappy.
# It may cause minor artifacts, though.
# A value of 20000 is probably a good
# starting point.

### SAVING FIGURES
path.simplify : True   # When True, simplify paths by removing "invisible"
# points to reduce file size and increase rendering
# speed
path.simplify_threshold : 0.1111111111111111
# The threshold of similarity below which
# vertices will be removed in the simplification
# process
path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
# the nearest pixel when certain criteria are met. When False,
# paths will never be snapped.
path.sketch : None # May be none, or a 3-tuple of the form (scale, length,
# randomness).
# *scale* is the amplitude of the wiggle
# perpendicular to the line (in pixels). *length*
# is the length of the wiggle along the line (in
# pixels). *randomness* is the factor by which
# the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
savefig.dpi : 100      # figure dots per inch
savefig.facecolor : w   # figure facecolor when saving
savefig.edgecolor : w   # figure edgecolor when saving
savefig.format : png     # png, ps, pdf, svg
savefig.bbox : standard # 'tight' or 'standard'.
    # 'tight' is incompatible with pipe-based animation
    # backends but will work with temporary file based ones:
    # e.g. setting animation.writer to ffmpeg will not work,
    # use ffmpeg_file instead
savefig.pad_inches : 0.1     # Padding to be used when bbox is set to 'tight'
savefig.jpeg_quality : 95     # when a jpeg is saved, the default quality parameter.
savefig.directory : ~     # default directory in savefig dialog box,
    # leave empty to always use current working directory
savefig.transparent : False    # setting that controls whether figures are saved with a
    # transparent background by default
savefig.frameon : True
savefig.orientation : portrait

nbagg.transparent: True

# tk backend params
tk.window_focus : False     # Maintain shell focus for TkAgg

# ps backend params
ps.papersize : letter     # auto, letter, legal, ledger, A0-A10, B0-B10
ps.useafm : False     # use of afm fonts, results in small files
ps.usedistiller : False  # can be: None, ghostscript or xpdf
    # Experimental: may produce smaller files.
    # xpdf intended for production of publication quality files,
    # but requires ghostscript, xpdf and ps2eps
ps.distiller.res : 6000     # dpi
ps.fonttype : 3     # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
pdf.compression : 6 # integer from 0 to 9
    # 0 disables compression (good for debugging)
pdf.fonttype : 3     # Output Type 3 (Type3) or Type 42 (TrueType)
pdf.inheritcolor : False
pdf.use14corefonts : False

# pgf backend params
pgf.debug : False
pgf.texsystem : xelatex
pgf.rcfonts : True
pgf.preamble : 

# svg backend params
svg.image_inline : True     # write raster image data directly into the svg file
svg.image_noscale : False   # suppress scaling of raster data embedded in SVG
svg.fonttype : path     # How to handle SVG fonts:
    # 'none': Assume fonts are installed on the machine where the SVG will be viewed.
# `path`: Embed characters as paths -- supported by most SVG renderers
# `svgfont`: Embed characters as SVG fonts -- supported only by Chrome, Opera and Safari

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
verbose.level : silent      # one of silent, helpful, debug, debug-annoying
verbose.fileo : sys.stdout  # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : "")
keymap.fullscreen : f, ctrl+f   # toggling
keymap.home : h, r, home       # home or reset mnemonic
keymap.back : left, c, backspace # forward / backward keys to enable
keymap.forward : right, v      # left handed quick navigation
keymap.pan : p                  # pan mnemonic
keymap.zoom : o                 # zoom mnemonic
keymap.save : s, ctrl+s         # saving current figure
keymap.quit : ctrl+w, cmd+w     # close the current figure
keymap.grid : g                  # switching on/off a grid in current axes
keymap.yscale : l               # toggle scaling of y-axes ('log'/'linear')
keymap.xscale : k, L             # toggle scaling of x-axes ('log'/'linear')
keymap.all_axes : a              # enable all axes

toolbar: toolbar2

###ANIMATION settings
animation.writer : ffmpeg       # MovieWriter 'backend' to use
animation.codec : mpeg4         # Codec to use for writing movie
animation.bitrate: -1           # Controls size/quality tradeoff for movie.
animation.frame_format: png  # Controls frame format used by temp files
animation.ffmpeg_path: ffmpeg  # Path to ffmpeg binary. Without full path
  # $PATH is searched
animation.ffmpeg_args:  # Additional arguments to pass to ffmpeg
animation.avconv_path: avconv  # Path to avconv binary. Without full path
  # $PATH is searched
animation.avconv_args:  # Additional arguments to pass to avconv
animation.mencoder_path: mencoder  # Path to mencoder binary. Without full path
  # $PATH is searched
animation.mencoder_args:  # Additional arguments to pass to mencoder
animation.convert_path: convert  # Path to ImageMagick's convert binary.
  # On Windows use the full path since convert
  # is also the name of a system tool.
animation.convert_args:
animation.html: none

# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
&&&FFFpppFFFFFFSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSmmmFFFFFFFFFF
hhhh444yyy:::hhh

StartFontMetrics 2.0
Comment Creation Date: Tue Mar 20 13:14:56 1990
Comment UniqueID 28427
Comment VMusage 32912 39804
FontName Times-Italic
FullName Times Italic
FamilyName Times
Weight Medium
ItalicAngle -15.5
IsFixedPitch false
FontBBox -169 -217 1010 883
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Times is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 653
XHeight 441
Ascender 683
Descender -205
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 39 -11 302 667 ;
C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;
KPX Y colon -65
KPX Y a -92
KPX Y O -15
KPX Y A -50

KPX a y 0
KPX a w 0
KPX a v 0
KPX a t 0
KPX a p 0
KPX a g -10
KPX a b 0

KPX b y 0
KPX b v 0
KPX b u -20
KPX b period -40
KPX b l 0
KPX b comma 0
KPX b b 0

KPX c y 0
KPX c period 0
KPX c l 0
KPX c k -20
KPX c h -15
KPX c comma 0

KPX colon space 0

KPX comma space 0
KPX comma quoteright -140
KPX comma quotedblright -140

KPX d y 0
KPX d w 0
KPX d v 0
KPX d period 0
KPX d d 0
KPX d comma 0

KPX e y -30
KPX e x -20
KPX e w -15
KPX e v -15
KPX e period -15
KPX e p 0
KPX e g -40
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This directory contains font metrics for the 14 PDF Core Fonts, downloaded from Adobe. The title and this paragraph were added by Matplotlib developers. The download URL was <http://partners.adobe.com/public/developer/font/index.html>.

This file and the 14 PostScript(R) AFM files it accompanies may be used, copied, and distributed for any purpose and without charge, with or without modification, provided that all copyright notices are retained; that the AFM files are not distributed without this file; that all modifications to this file or any of the AFM files are prominently noted in the modified file(s); and that this paragraph is not modified. Adobe Systems has no responsibility or obligation to support the use of the AFM files.

StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:20 1990
Comment UniqueID 5000774
FontName CMEX10
EncodingScheme FontSpecific
FullName CMEX10
FamilyName Computer Modern
Weight Medium
ItalicAngle 0
IsFixedPitch false
Version 1.00
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -24 -2960 1454 772
XHeight 430.556
Comment CapHeight 0
Ascender 750
Comment Descender -1760
Descender -2960
Comment FontID CMEX
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX math extension
Comment Space 0 0 0
Comment ExtraSpace 0
Comment Quad 1000
Comment DefaultRuleThickness 40
Comment BigOpSpacing 111.111 166.667 200 600 100
Comment Ascendible characters (74)
Comment Ascending 0, 16, 18, 32, 48% ( - parenleft
Comment Ascending 1, 17, 19, 33, 49% ) - parenright
Comment Ascending 2, 104, 20, 34, 50% [ - bracketleft
Comment Ascending 3, 105, 21, 35, 51% ] - bracketright
Comment Ascending 4, 106, 22, 36, 52% Ifloor - floorleft
Comment Ascending 5, 107, 23, 37, 53% Rfloor - floorright
Comment Ascending 6, 108, 24, 38, 54% lceil - ceilingleft
Comment Ascending 7, 109, 25, 39, 55% rceil - ceingright
Comment Ascending 8, 110, 26, 40, 56% { - braceleft
Comment Ascending 9, 111, 27, 41, 57% } - braceright
Comment Ascending 10, 68, 28, 42% < - anglebracketleft
Comment Ascending 11, 69, 29, 43% > - anglebracketright
Comment Ascending 14, 46, 30, 44% / - slash
Comment Ascending 15, 47, 31, 45% \ - backslash
Comment Ascending 70, 71% bigsqcup - unionsq
Comment Ascending 72, 73% oint - contintegral
Comment Ascending 74, 75% bigodot - circledot
Comment Ascending 76, 77% bigoplus - circleplus
Comment Ascending 78, 79% bigtimes - circletimes
Comment Ascending 80, 88% sum - summation
Comment Ascending 81, 89% prod - product
Comment Ascending 82, 90% int - integral
Comment Ascending 83, 91% bigcup - union
Comment Ascending 84, 92% bigcap - intersection
Comment Ascending 85, 93% bigplus - unionmulti
Comment Ascending 86, 94% bigwedge - logicaland
Comment Ascending 87, 95% bigvee - logicalor
Comment Ascending 96, 97% coprod - coproduct
Comment Ascending 98, 99, 100% widehat - hatwide
Comment Ascending 101, 102, 103% widetilde - tildewide
Comment Ascending 112, 113, 114, 115, 116% radical - sqrt
Comment Extensible characters (28)
Comment Extensible 12 top 0 mid 0 bot 0 rep 12 % vert - thin bar
Comment Extensible 13 top 0 mid 0 bot 0 rep 13 % Vert - thin double bar
Comment Extensible 48 top 48 mid 0 bot 0 rep 66 % ( - parenleft
Comment Extensible 49 top 49 mid 0 bot 65 rep 67 % ) - parenright
Comment Extensible 50 top 50 mid 0 bot 52 rep 54 % [ - bracketleft
Comment Extensible 51 top 51 mid 0 bot 53 rep 55 % ] - bracketright
Comment Extensible 52 top 0 mid 0 bot 52 rep 54 % Ifloor - floorleft
Comment Extensible 53 top 0 mid 0 bot 53 rep 55 % Rfloor - floorright
Comment Extensible 54 top 50 mid 0 bot 0 rep 54 % lceil - ceilingleft
Comment Extensible 55 top 51 mid 0 bot 0 rep 55 % rceil - ceilingright
Comment Extensible 56 top 56 mid 60 bot 58 rep 62 % { - braceleft
Comment Extensible 57 top 57 mid 61 bot 59 rep 62 % } - braceright
Comment Extensible 58 top 56 mid 0 bot 58 rep 62 % lgroup
### MATPLOTLIBRC FORMAT

# This is a sample matplotlib configuration file - you can find a copy
# of it on your system in
# site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it
# there, please note that it will be overwritten in your next install.
# If you want to keep a permanent local copy that will not be
# overwritten, place it in the following location:
# unix/linux:
#    $HOME/.config/matplotlib/matplotlibrc or
#    $XDG_CONFIG_HOME/matplotlib/matplotlibrc (if $XDG_CONFIG_HOME is set)
# other platforms:
#    $HOME/.matplotlib/matplotlibrc
#    See http://matplotlib.org/users/customizing.html#the-matplotlibrc-file for
# more details on the paths which are checked for the configuration file.
#
# This file is best viewed in a editor which supports python mode
# syntax highlighting. Blank lines, or lines starting with a comment
# symbol, are ignored, as are trailing comments. Other lines must
# have the format
#    key : val # optional comment
#
# Colors: for the color values below, you can either use - a
# matplotlib color string, such as r, k, or b - an rgb tuple, such as
# (1.0, 0.5, 0.0) - a hex string, such as ff00ff or #ff00ff - a scalar
# grayscale intensity such as 0.75 - a legal html color name, e.g., red,
# blue, darkslategray

#### CONFIGURATION BEGINS HERE

# The default backend; one of GTK GTKAgg GTKCairo GTK3Agg GTK3Cairo
# CocoaAgg MacOSX Qt4Agg Qt5Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG
# Template.
# You can also deploy your own backend outside of matplotlib by
# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'.
backend      : qt4agg

# If you are using the Qt4Agg backend, you can choose here
# to use the PyQt4 bindings or the newer PySide bindings to
# the underlying Qt4 toolkit.
#backend.qt4 : PyQt4     # PyQt4 | PySide

# Note that this can be overridden by the environment variable

---

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# QT_API used by Enthought Tool Suite (ETS); valid values are
# "pyqt" and "pyside". The "pyqt" setting has the side effect of
# forcing the use of Version 2 API for QString and QVariant.

# The port to use for the web server in the WebAgg backend.
# webagg.port : 8888

# If webagg.port is unavailable, a number of other random ports will
# be tried until one that is available is found.
# webagg.port_retries : 50

# When True, open the webbrowser to the plot that is shown
# webagg.open_in_browser : True

# When True, the figures rendered in the nbagg backend are created with
# a transparent background.
# nbagg.transparent : True

# if you are running pyplot inside a GUI and your backend choice
# conflicts, we will automatically try to find a compatible one for
# you if backend_fallback is True
# backend_fallback: True

#interactive : False
#toolbar : toolbar2  # None | toolbar2  ("classic" is deprecated)
#timezone : UTC     # a pytz timezone string, e.g., US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
# location. This is where the matplotlib fonts, bitmaps, etc reside
# datapath : /home/jdhunter/mpldata

#### LINES
# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
#lines.linewidth : 1.0   # line width in points
#lines.linestyle : -    # solid line
#lines.color : blue     # has no affect on plot(); see axes.prop_cycle
#lines.marker : None    # the default marker
#lines.markeredgewidth : 0.5  # the line width around the marker symbol
#lines.markersize : 6    # markersize, in points
#lines.dash_joinstyle : miter  # miter|round|bevel
#lines.dash_capstyle : butt    # butt|round|projecting
#lines.solid_joinstyle : miter  # miter|round|bevel
#lines.solid_capstyle : projecting  # butt|round|projecting
#lines.antialiased : True   # render lines in antialiased (no jaggies)

#markers.fillstyle: full # full|left|right|bottom|top|none
### PATCHES

# Patches are graphical objects that fill 2D space, like polygons or circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches

# information on patch properties

patch.linewidth : 1.0  # edge width in points
patch.facecolor  : blue
patch.edgecolor  : black
patch.antialiased: True  # render patches in antialiased (no jaggies)

### FONT

# font properties used by text.Text. See
# http://matplotlib.org/api/font_manager_api.html for more

# information on font properties. The 6 font properties used for font matching are given below with their default values.

# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.

# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.

# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.

# The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.

# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.

# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.

# font.family  : sans-serif
# may also be loaded, depending on your font settings

#text.dvipnghack : None  # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

#text.hinting : auto  # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.
#text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

#text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
#mathtext.cal : cursive
#mathtext.rm : serif
#mathtext.tt : monospace
#mathtext.it : serif:italic
#mathtext.bf : serif:bold
#mathtext.sf : sans
#mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
# 'stixsans' or 'custom'
#mathtext.fallback_to_cm : True  # When True, use symbols from the Computer Modern
# fonts when a symbol can not be found in one of
# the custom math fonts.

#mathtext.default : it # The default font to use for math.
# Can be any of the LaTeX font names, including
# the special name "regular" for the same font
# used in regular text.
### AXES
# default face and edge color, default tick sizes,  # default fontsizes for ticklabels, and so on.  See  # http://matplotlib.org/api/axes_api.html#module-matplotlib.axes  #axes.hold : True  # whether to clear the axes by default on  #axes.facecolor : white  # axes background color  #axes.edgecolor : black  # axes edge color  #axes.linewidth : 1.0  # edge linewidth  #axes.grid : False  # display grid or not  #axes.titlesize : large  # fontsize of the axes title  #axes.labelsizer : medium  # fontsize of the x any y labels  #axes.labelpad : 5.0  # space between label and axis  #axes.labelweight : normal  # weight of the x and y labels  #axes.labelcolor : black  #axes.axisbelow : False  # whether axis gridlines and ticks are below  # the axes elements (lines, text, etc)  #axes.formatter.limits : -7, 7  # use scientific notation if log10  # of the axis range is smaller than the  # first or larger than the second  #axes.formatter.use_locale : False  # When True, format tick labels  # according to the user's locale.  # For example, use ',' as a decimal  # separator in the fr_FR locale.  #axes.formatter.use_mathtext : False  # When True, use mathtext for scientific  # notation.  #axes.formatter.useoffset : True  # If True, the tick label formatter  # will default to labeling ticks relative  # to an offset when the data range is very  # small compared to the minimum absolute  # value of the data.  #axes.unicode_minus : True  # use unicode for the minus symbol  # rather than hyphen.  See  # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes  #axes.prop_cycle : cycler('color', 'bgrcmyk')  # color cycle for plot lines  # as list of string colorspecs:  # single letter, long name, or  # web-style hex  #axes.xmargin : 0  # x margin.  See `axes.Axes.margins`  #axes.ymargin : 0  # y margin See `axes.Axes.margins`  #polaraxes.grid : True  # display grid on polar axes  #axes3d.grid : True  # display grid on 3d axes

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
#xtick.major.size : 4 # major tick size in points
#xtick.minor.size : 2 # minor tick size in points
#xtick.major.width : 0.5 # major tick width in points
#xtick.minor.width : 0.5 # minor tick width in points
#xtick.major.pad : 4 # distance to major tick label in points
#xtick.minor.pad : 4 # distance to the minor tick label in points
#xtick.color : k # color of the tick labels
#xtick.labelsize : medium # fontsize of the tick labels
#xtick.direction : in # direction: in, out, or inout

#ytick.major.size : 4 # major tick size in points
#ytick.minor.size : 2 # minor tick size in points
#ytick.major.width : 0.5 # major tick width in points
#ytick.minor.width : 0.5 # minor tick width in points
#ytick.major.pad : 4 # distance to major tick label in points
#ytick.minor.pad : 4 # distance to the minor tick label in points
#ytick.color : k # color of the tick labels
#ytick.labelsize : medium # fontsize of the tick labels
#ytick.direction : in # direction: in, out, or inout

### GRIDS
#grid.color : black # grid color
#grid.linestyle : : # dotted
#grid.linewidth : 0.5 # in points
#grid.alpha : 1.0 # transparency, between 0.0 and 1.0

### Legend
#legend.fancybox : False # if True, use a rounded box for the
    # legend, else a rectangle
#legend.isaxes : True
#legend.numpoints : 2 # the number of points in the legend line
#legend.fontsize : large
#legend.borderpad : 0.5 # border whitespace in fontsize units
#legend.markerscale : 1.0 # the relative size of legend markers vs. original
# the following dimensions are in axes coords
#legend.labelspacing : 0.5 # the vertical space between the legend entries in fraction of fontsize
#legend.handlelength : 2. # the length of the legend lines in fraction of fontsize
#legend.handleheight : 0.7 # the height of the legend handle in fraction of fontsize
#legend.handletextpad : 0.8 # the space between the legend line and legend text in fraction of fontsize
#legend.borderaxespad : 0.5 # the border between the axes and legend edge in fraction of fontsize
#legend.columnsspacing : 2. # the border between the axes and legend edge in fraction of fontsize
#legend.shadow : False
#legend.frameon : True # whether or not to draw a frame around legend
#legend.framealpha : None # opacity of of legend frame
#legend.scatterpoints : 3 # number of scatter points

### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
#figure.titlesize : medium    # size of the figure title
#figure.titleweight : normal  # weight of the figure title
#figure.figsize   : 8, 6     # figure size in inches
#figure.dpi       : 80       # figure dots per inch
#figure.facecolor : 0.75     # figure facecolor; 0.75 is scalar gray
#figure.edgecolor : white    # figure edgecolor
#figure.autolayout : False   # When True, automatically adjust subplot
# parameters to make the plot fit the figure
#figure.max_open_warning : 20 # The maximum number of figures to open through
# the pyplot interface before emitting a warning.
# If less than one this feature is disabled.

# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
#figure.subplot.left    : 0.125 # the left side of the subplots of the figure
#figure.subplot.right   : 0.9   # the right side of the subplots of the figure
#figure.subplot.bottom  : 0.1   # the bottom of the subplots of the figure
#figure.subplot.top     : 0.9   # the top of the subplots of the figure
#figure.subplot.wspace  : 0.2   # the amount of width reserved for blank space between subplots
#figure.subplot.hspace  : 0.2   # the amount of height reserved for white space between subplots

### IMAGES
#image.aspect : equal         # equal | auto | a number
#image.interpolation  : bilinear # see help(imshow) for options
#image.cmap   : jet           # gray | jet etc...
#image.lut    : 256           # the size of the colormap lookup table
#image.origin : upper         # lower | upper
#image.resample : False
#image.composite_image : True  # When True, all the images on a set of axes are
#                          # combined into a single composite image before
#                          # saving a figure as a vector graphics file,
#                          # such as a PDF.

### CONTOUR PLOTS
#contour.negative_linestyle : dashed # dashed | solid
#contour.corner_mask        : True    # True | False | legacy

### ERRORBAR PLOTS
#errorbar.capsize : 3        # length of end cap on error bars in pixels

### Agg rendering
### Warning: experimental, 2008/10/10
#agg.path.chunksize : 0       # 0 to disable; values in the range
#                          # 10000 to 100000 can improve speed slightly
#                          # and prevent an Agg rendering failure
# when plotting very large data sets,
# especially if they are very gappy.
# It may cause minor artifacts, though.
# A value of 20000 is probably a good
# starting point.

### SAVING FIGURES
$path.simplify : True  # When True, simplify paths by removing "invisible"
  # points to reduce file size and increase rendering
  # speed
$path.simplify_threshold : 0.1  # The threshold of similarity below which
  # vertices will be removed in the simplification
  # process
$path.snap : True  # When True, rectilinear axis-aligned paths will be snapped to
  # the nearest pixel when certain criteria are met. When False,
  # paths will never be snapped.
$path.sketch : None  # May be none, or a 3-tuple of the form (scale, length,
  # randomness).
  # *scale* is the amplitude of the wiggle
  # perpendicular to the line (in pixels). *length*
  # is the length of the wiggle along the line (in
  # pixels). *randomness* is the factor by which
  # the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
#savefig.dpi         : 100      # figure dots per inch
#savefig.facecolor   : white    # figure facecolor when saving
#savefig.edgecolor   : white    # figure edgecolor when saving
#savefig.format      : png      # png, ps, pdf, svg
#savefig.bbox        : standard # 'tight' or 'standard'.
  # 'tight' is incompatible with pipe-based animation
  # backends but will work with temporary file based ones:
  # e.g. setting animation.writer to ffmpeg will not work,
  # use ffmpeg_file instead
#savefig.pad_inches  : 0.1      # Padding to be used when bbox is set to 'tight'
#savefig.jpeg_quality: 95       # when a jpeg is saved, the default quality parameter.
#savefig.directory   : ~        # default directory in savefig dialog box,
  # leave empty to always use current working directory
#savefig.transparent : False    # setting that controls whether figures are saved with a
  # transparent background by default

# tk backend params
#tk.window_focus   : False    # Maintain shell focus for TkAgg

# ps backend params
#ps.papersize      : letter   # auto, letter, legal, ledger, A0-A10, B0-B10
#ps.useafm          : False    # use of afm fonts, results in small files
#ps.usedistiller   : False    # can be: None, ghostscript or xpdf
  # Experimental: may produce smaller files.
# xpdf intended for production of publication quality files,
# but requires ghostscript, xpdf and ps2eps

#ps.distiller.res : 6000       # dpi
#ps.fonttype : 3            # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
#pdf.compression : 6 # integer from 0 to 9
#    # 0 disables compression (good for debugging)
#pdf.fonttype : 3            # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True       # write raster image data directly into the svg file
#svg.image_noscale : False     # suppress scaling of raster data embedded in SVG
#svg.fonttype : 'path'         # How to handle SVG fonts:
#    # 'none': Assume fonts are installed on the machine where the SVG will be viewed.
#    # 'path': Embed characters as paths -- supported by most SVG renderers
#    # 'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
#    # Opera and Safari

# docstring params
#docstring.hardcopy = False  # set this when you want to generate hardcopy docstring

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
#verbose.level : silent        # one of silent, helpful, debug, debug-annoying
#verbose.fileo : sys.stdout    # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : ")

#keymap.fullscreen : f           # toggling
#keymap.home : h, r, home        # home or reset mnemonic
#keymap.back : left, c, backspace    # forward / backward keys to enable
#keymap.forward : right, v       # left handed quick navigation
#keymap.pan : p                   # pan mnemonic
#keymap.zoom : o                   # zoom mnemonic
#keymap.save : s                   # saving current figure
#keymap.quit : ctrl+w, cmd+w      # close the current figure
#keymap.grid : g                   # switching on/off a grid in current axes
#keymap.yscale : l                 # toggle scaling of y-axes ('log'/linear')
#keymap.xscale : L, k              # toggle scaling of x-axes ('log'/linear')
#keymap.all_axes : a               # enable all axes

# Control location of examples data files
#examples.directory : ''     # directory to look in for custom installation

###ANIMATION settings
#animation.html : 'none'        # How to display the animation as HTML in
# the IPython notebook. 'html5' uses
# HTML5 video tag.
#animation.writer : ffmpeg      # MovieWriter 'backend' to use
#animation.codec : mpeg4        # Codec to use for writing movie
#animation.bitrate: -1          # Controls size/quality tradeoff for movie.
# -1 implies let utility auto-determine
#animation.frame_format: 'png'   # Controls frame format used by temp files
#animation ffmpeg_path: 'ffmpeg' # Path to ffmpeg binary. Without full path
# SPATH is searched
#animation ffmpeg_args: ''       # Additional arguments to pass to ffmpeg
#animation avconv_path: 'avconv' # Path to avconv binary. Without full path
# SPATH is searched
#animation avconv_args: ''       # Additional arguments to pass to avconv
#animation mencoder_path: 'mencoder'
# Path to mencoder binary. Without full path
# SPATH is searched
#animation mencoder_args: ''     # Additional arguments to pass to mencoder
#animation convert_path: 'convert' # Path to ImageMagick's convert binary.
# On Windows use the full path since convert
# is also the name of a system tool.

Comment Creation Date: Mon Jul  2 22:48:39 1990
Comment UniqueID 31799
Comment VMusage 37656 48548
fontName Palatino-BoldItalic
fullName Palatino BoldItalic
familyName Palatino
weight Bold
italicAngle -10
isFixedPitch false
fontbbox -170 -271 1073 926
StartKernData
StartKernPairs 108

KPX A y -55
KPX A w -37
KPX A v -55
KPX A space -55
KPX A quoteright -55
KPX A Y -74
KPX A W -74
KPX A V -74
KPX A T -55

KPX F space -18
KPX F period -111
KPX F comma -111
KPX F A -74

KPX L y -37
KPX L space -18
KPX L quoteright -55
KPX L Y -74
KPX L W -74
KPX L V -74
KPX L T -74

KPX P space -55
KPX P period -129
KPX P comma -129
KPX P A -92

KPX R y -20
KPX R Y -37
KPX R W -55
KPX R V -55
KPX R T -37

KPX T y -80
KPX T w -50
KPX T u -92
KPX T semicolon -55
KPX T s -92
KPX T r -92
KPX T period -55
KPX T o -111
KPX T i -74
KPX T hyphen -92
KPX T e -111
The Anti-Grain Geometry Project
A high quality rendering engine for C++
http://antigrain.com

Anti-Grain Geometry - Version 2.4
Copyright (C) 2002-2005 Maxim Shemanarev (McSee)

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warranty, and with no claim as to its suitability for any purpose.

FontName Helvetica-BoldOblique
FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 001.007

encodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StartCharMetrics 228
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
Open Source Used In Secure Workload 3.6.1.1  10556
KPX A Q -40
KPX A O -40
KPX A G -50
KPX A C -40

KPX B U -10
KPX B A -30

KPX D period -30
KPX D comma -30
KPX D Y -70
KPX D W -40
KPX D V -40
KPX D A -40

KPX F period -100
KPX F comma -100
KPX F a -20
KPX F A -80

KPX J u -20
KPX J period -20
KPX J comma -20
KPX J A -20

KPX K y -40
KPX K u -30
KPX K o -35
KPX K e -15
KPX K O -30

KPX L y -30
KPX L quoteright -140
KPX L quotedblright -140
KPX L Y -120
KPX L W -80
KPX L V -110
KPX L T -90

KPX O period -40
KPX O comma -40
KPX O Y -70
KPX O X -50
KPX O W -50
KPX O V -50
KPX O T -40
KPX O A -50
KPX P period -120
KPX P o -40
KPX P e -30
KPX P comma -120
KPX P a -30
KPX P A -100
KPX Q period 20
KPX Q comma 20
KPX Q U -10
KPX R Y -50
KPX R W -40
KPX R V -50
KPX R U -20
KPX R T -20
KPX R O -20
KPX T y -60
KPX T w -60
KPX T u -90
KPX T semicolon -40
KPX T r -80
KPX T period -80
KPX T o -80
KPX T hyphen -120
KPX T e -60
KPX T comma -80
KPX T colon -40
KPX T a -80
KPX T O -40
KPX T A -90
KPX U period -30
KPX U comma -30
KPX U A -50
KPX V u -60
KPX V semicolon -40
KPX V period -120
KPX V o -90
KPX V hyphen -80
KPX V e -50
KPX V comma -120
KPX V colon -40
KPX V a -60
KPX V O -50
KPX V G -50
The version number of these fonts is 1.10 to distinguish them from the beta test fonts.

Note that the Vera copyright is incorporated in the fonts themselves. The License field in the fonts contains the copyright license as it appears below. The TrueType copyright field is not large enough to contain the full license, so the license is incorporated (as you might think if you thought about it) into the license field, which unfortunately can be obscure to find. (In pfaedit, see: Element->Font Info->TTFNames->License).

Our apologies for it taking longer to complete the fonts than planned. Beta testers requested a tighter line spacing (less leading) and Jim Lyles redesigned Vera's accents to bring its line spacing to more typical of other fonts. This took additional time and effort. Our thanks to Jim for this effort above and beyond the call of duty.

There are four monospace and sans faces (normal, oblique, bold, bold oblique) and two serif faces (normal and bold). Fontconfig/Xft2 (see www.fontconfig.org) can artificially oblique the serif faces for you: this loses hinting and distorts the faces slightly, but is visibly different than normal and bold, and reasonably pleasing.

On systems with fontconfig 2.0 or 2.1 installed, making your sans,
serif and monospace fonts default to these fonts is very easy. Just drop the file local.conf into your /etc/fonts directory. This will make the Bitstream fonts your default fonts for all applications using fontconfig (if sans, serif, or monospace names are used, as they often are as default values in many desktops). The XML in local.conf may need modification to enable subpixel decimation, if appropriate, however, the commented out phrase does so for XFree86 4.3, in the case that the server does not have sufficient information to identify the use of a flat panel. Fontconfig 2.2 adds Vera to the list of font families and will, by default use it as the default sans, serif and monospace fonts.

During the testing of the final Vera fonts, we learned that screen fonts in general are only typically hinted to work correctly at integer pixel sizes. Vera is coded internally for integer sizes only. We need to investigate further to see if there are commonly used fonts that are hinted to be rounded but are not rounded to integer sizes due to oversights in their coding.

Most fonts work best at 8 pixels and below if anti-aliased only, as the amount of work required to hint well at smaller and smaller sizes becomes astronomical. GASP tables are typically used to control whether hinting is used or not, but Freetype/Xft does not currently support GASP tables (which are present in Vera).

To mitigate this problem, both for Vera and other fonts, there will be (very shortly) a new fontconfig 2.2 release that will, by default not apply hints if the size is below 8 pixels. if you should have a font that in fact has been hinted more aggressively, you can use fontconfig to note this exception. We believe this should improve many hinted fonts in addition to Vera, though implementing GASP support is likely the right long term solution.

Font rendering in Gnome or KDE is the combination of algorithms in Xft2 and Freetype, along with hinting in the fonts themselves. It is vital to have sufficient information to disentangle problems that you may observe.

Note that having your font rendering system set up correctly is vital to proper judgement of problems of the fonts:

* Freetype may or may not be configured to in ways that may implement execution of possibly patented (in some parts of the world) TrueType hinting algorithms, particularly at small sizes. Best results are obtained while using these algorithms.

* The freetype autohinter (used when the possibly patented algorithms are not used) continues to improve with each release. If
you are using the autohinter, please ensure you are using an up to date version of freetype before reporting problems.

* Please identify what version of freetype you are using in any bug reports, and how your freetype is configured.

* Make sure you are not using the freetype version included in XFree86 4.3, as it has bugs that significantly degrade most fonts, including Vera. If you build XFree86 4.3 from source yourself, you may have installed this broken version without intending it (as I did). Vera was verified with the recently released Freetype 2.1.4. On many systems, 'ldd" can be used to see which freetype shared library is actually being used.

* Xft/X Render does not (yet) implement gamma correction. This causes significant problems rendering white text on a black background (causing partial pixels to be insufficiently shaded) if the gamma of your monitor has not been compensated for, and minor problems with black text on a white background. The program "xgamma" can be used to set a gamma correction value in the X server's color palette. Most monitors have a gamma near 2.

* Note that the Vera family uses minimal delta hinting. Your results on other systems when not used anti-aliased may not be entirely satisfying. We are primarily interested in reports of problems on open source systems implementing Xft2/fontconfig/freetype (which implements antialiasing and hinting adjustments, and sophisticated subpixel decimation on flatpanels). Also, the algorithms used by Xft2 adjust the hints to integer widths and the results are crisper on open source systems than on Windows or MacIntosh.

* Your fontconfig may (probably does) predate the release of fontconfig 2.2, and you may see artifacts not present when the font is used at very small sizes with hinting enabled. "vc-list -V" can be used to see what version you have installed.

We believe and hope that these fonts will resolve the problems reported during beta test. The largest change is the reduction of leading (interline spacing), which had annoyed a number of people, and reduced Vera's utility for some applications. The Vera monospace font should also now make '0' and 'O' and '1' and 'l' more clearly distinguishable.

The version of these fonts is version 1.10. Fontconfig should be choosing the new version of the fonts if both the released fonts and beta test fonts are installed (though please discard them: they have names of form tt20[1-12]gn.ttf). Note that older versions of
fontconfig sometimes did not rebuild their cache correctly when new fonts are installed: please upgrade to fontconfig 2.2. "fc-cache -f" can be used to force rebuilding fontconfig's cache files.

If you note problems, please send them to fonts at gnome dot org, with exactly which face and size and unicode point you observe the problem at. The xfd utility from XFree86 CVS may be useful for this (e.g., "xfd -fa sans"). A possibly more useful program to examine fonts at a variety of sizes is the "waterfall" program found in Keith Packard's CVS.

```
$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS login
Logging in to :pserver:anoncvs@keithp.com:2401/local/src/CVS
CVS password: <hit return>
$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS co waterfall
$ cd waterfall
$ xmkmf -a
$ make
# make install
# make install.man
```

Again, please make sure you are running an up-to-date freetype, and that you are only examining integer sizes.

**Reporting Problems**

Please send problem reports to fonts at gnome org, with the following information:

1. Version of Freetype, Xft2 and fontconfig
2. Whether TT hinting is being used, or the autohinter
3. Application being used
4. Character/Unicode code point that has problems (if applicable)
5. Version of which operating system
6. Please include a screenshot, when possible.

Please check the fonts list archives before reporting problems to cut down on duplication.

StartFontMetrics 2.0
Comment Copyright (c) 1985, 1987, 1988, 1989 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Fri Dec 1 12:57:42 1989
Comment UniqueID 26200
Comment VMusage 39281 49041
FontName ZapfDingbats
FullName ITC Zapf Dingbats
FamilyName ITC Zapf Dingbats
Weight Medium
Open Source Used In Secure Workload 3.6.1.1 10573
Open Source Used In Secure Workload 3.6.1.1 10576
Open Source Used In Secure Workload 3.6.1.1 10581
Open Source Used In Secure Workload 3.6.1.1 10592
KPX T period -120
KPX T r -120
KPX T racute -120
KPX T rcaron -120
KPX T rcommaaccent -120
KPX T semicolon -20
KPX T u -120
KPX T uacute -120
KPX T ucircumflex -120
KPX T udieresis -120
KPX T ugrave -120
KPX T uhungarumlaut -120
KPX T umacron -60
KPX T uogonek -120
KPX T uring -120
KPX T w -120
KPX T y -120
KPX T yacute -120
KPX T ydieresis -60
KPX Tcaron A -120
KPX Tcaron Aacute -120
KPX Tcaron Abreve -120
KPX Tcaron Acircumflex -120
KPX Tcaron Adieresis -120
KPX Tcaron Agrave -120
KPX Tcaron Amacron -120
KPX Tcaron Aogonek -120
KPX Tcaron Aring -120
KPX Tcaron Atilde -120
KPX Tcaron O -40
KPX Tcaron Oacute -40
KPX Tcaron Ocircumflex -40
KPX Tcaron Odieresis -40
KPX Tcaron Ograve -40
KPX Tcaron Ohungarumlaut -40
KPX Tcaron Omacron -40
KPX Tcaron Oslash -40
KPX Tcaron Otilde -40
KPX Tcaron a -120
KPX Tcaron aacute -120
KPX Tcaron abreve -60
KPX Tcaron acircumflex -120
KPX Tcaron adieresis -120
KPX Tcaron agrave -120
KPX Tcaron amacron -60
KPX Tcaron aogonek -120
KPX Tcaron aring -120
KPX Tcaron atilde -60
KPX Tcommaaccent u -120
KPX Tcommaaccent uacute -120
KPX Tcommaaccent ucircumflex -120
KPX Tcommaaccent udieresis -120
KPX Tcommaaccent ugrave -120
KPX Tcommaaccent uhungarumlaut -120
KPX Tcommaaccent umacron -60
KPX Tcommaaccent uogonek -120
KPX Tcommaaccent uring -120
KPX Tcommaaccent w -120
KPX Tcommaaccent y -120
KPX Tcommaaccent yacute -120
KPX Tcommaaccent ydieresis -60
KPX U A -40
KPX U Aacute -40
KPX U Abreve -40
KPX U Acircumflex -40
KPX U Adieresis -40
KPX U Agrave -40
KPX U Amacron -40
KPX U Aogonek -40
KPX U Aring -40
KPX U Atilde -40
KPX U comma -40
KPX U period -40
KPX Uacute A -40
KPX Uacute Aacute -40
KPX Uacute Abreve -40
KPX Uacute Acircumflex -40
KPX Uacute Adieresis -40
KPX Uacute Agrave -40
KPX Uacute Amacron -40
KPX Uacute Aogonek -40
KPX Uacute Aring -40
KPX Uacute Atilde -40
KPX Uacute comma -40
KPX Uacute period -40
KPX Ucircumflex A -40
KPX Ucircumflex Aacute -40
KPX Ucircumflex Abreve -40
KPX Ucircumflex Acircumflex -40
KPX Ucircumflex Adieresis -40
KPX Ucircumflex Agrave -40
KPX Ucircumflex Amacron -40
KPX Ucircumflex Aogonek -40
KPX Ucircumflex Aring -40
KPX Ucircumflex Atilde -40
KPX Ucircumflex comma -40
KPX Yacute amacron -70
KPX Yacute aogonek -140
KPX Yacute aring -140
KPX Yacute atilde -70
KPX Yacute colon -60
KPX Yacute comma -140
KPX Yacute e -140
KPX Yacute eacute -140
KPX Yacute ecaron -140
KPX Yacute ecircumflex -140
KPX Yacute edieresis -140
KPX Yacute edotaccent -140
KPX Yacute egrave -140
KPX Yacute emacron -70
KPX Yacute eogonek -140
KPX Yacute hyphen -140
KPX Yacute i -20
KPX Yacute iacute -20
KPX Yacute iogonek -20
KPX Yacute o -140
KPX Yacute oacute -140
KPX Yacute ocircumflex -140
KPX Yacute odieresis -140
KPX Yacute ograve -140
KPX Yacute ohungarumlaut -140
KPX Yacute omacron -70
KPX Yacute oslash -140
KPX Yacute otilde -140
KPX Yacute period -140
KPX Yacute semicolon -60
KPX Yacute u -110
KPX Yacute uacute -110
KPX Yacute ucircumflex -110
KPX Yacute udieresis -110
KPX Yacute ugrave -110
KPX Yacute uhungarumlaut -110
KPX Yacute umacron -110
KPX Yacute uogonek -110
KPX Yacute uring -110
KPX Ydieresis A -110
KPX Ydieresis Aacute -110
KPX Ydieresis Abreve -110
KPX Ydieresis Acircumflex -110
KPX Ydieresis Adieresis -110
KPX Ydieresis Agrave -110
KPX Ydieresis Amacron -110
KPX Ydieresis Aogonek -110
KPX Ydieresis Aring -110
Open Source Used In Secure Workload 3.6.1.1  10630
EndKernData
EndFontMetrics
P6

# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255

&\&FFpppFFF%%F(((FFFFFFFFFFF%\%FFmmmFFFFF   hhh44yyy:::hhh

StartFontMetrics 4.1
Comment Creation Date: Thu May 1 12:45:12 1997
Comment UniqueID 43053
Comment VMusage 14482 68586
FontName Helvetica-BoldOblique
FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StdHW 118
StdVW 140
StartCharMetrics 315
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;
C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;
C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;
C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;
C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;
C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;
C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;

Open Source Used In Secure Workload 3.6.1.1 10639
Open Source Used in Secure Workload 3.6.1.1 10641
KPX Oacute Atilde -50
KPX Oacute T -40
KPX Oacute Tcaron -40
KPX Oacute Tcommaaccent -40
KPX Oacute V -50
KPX Oacute W -50
KPX Oacute X -50
KPX Oacute Y -70
KPX Oacute Yacute -70
KPX Oacute Ydieresis -70
KPX Oacute comma -40
KPX Oacute period -40
KPX Ocircumflex A -50
KPX Ocircumflex Aacute -50
KPX Ocircumflex Abreve -50
KPX Ocircumflex Acircumflex -50
KPX Ocircumflex Adieresis -50
KPX Ocircumflex Agrave -50
KPX Ocircumflex Amacron -50
KPX Ocircumflex Aogonek -50
KPX Ocircumflex Aring -50
KPX Ocircumflex Atilde -50
KPX Ocircumflex T -40
KPX Ocircumflex Tcaron -40
KPX Ocircumflex Tcommaaccent -40
KPX Ocircumflex V -50
KPX Ocircumflex W -50
KPX Ocircumflex X -50
KPX Ocircumflex Y -70
KPX Ocircumflex Yacute -70
KPX Ocircumflex Ydieresis -70
KPX Ocircumflex comma -40
KPX Ocircumflex period -40
KPX Odieresis A -50
KPX Odieresis Aacute -50
KPX Odieresis Abreve -50
KPX Odieresis Acircumflex -50
KPX Odieresis Adieresis -50
KPX Odieresis Agrave -50
KPX Odieresis Amacron -50
KPX Odieresis Aogonek -50
KPX Odieresis Aring -50
KPX Odieresis Atilde -50
KPX Odieresis T -40
KPX Odieresis Tcaron -40
KPX Odieresis Tcommaaccent -40
KPX Odieresis V -50
KPX Odieresis W -50
KPX Odieresis X -50
KPX Odieresis Y -70
KPX Odieresis Yacute -70
KPX Odieresis Ydieresis -70
KPX Odieresis comma -40
KPX Odieresis period -40
KPX Ograve A -50
KPX Ograve Aacute -50
KPX Ograve Abreve -50
KPX Ograve Acircumflex -50
KPX Ograve Adieresis -50
KPX Ograve Agrave -50
KPX Ograve Amacron -50
KPX Ograve Aogonek -50
KPX Ograve Aring -50
KPX Ograve Atilde -50
KPX Ograve T -40
KPX Ograve Tcaron -40
KPX Ograve Tcommaaccent -40
KPX Ograve V -50
KPX Ograve W -50
KPX Ograve X -50
KPX Ograve Y -70
KPX Ograve Yacute -70
KPX Ograve Ydieresis -70
KPX Ograve comma -40
KPX Ograve period -40
KPX Ohungarumlaut A -50
KPX Ohungarumlaut Aacute -50
KPX Ohungarumlaut Abreve -50
KPX Ohungarumlaut Acircumflex -50
KPX Ohungarumlaut Adieresis -50
KPX Ohungarumlaut Agrave -50
KPX Ohungarumlaut Amacron -50
KPX Ohungarumlaut Aogonek -50
KPX Ohungarumlaut Aring -50
KPX Ohungarumlaut Atilde -50
KPX Ohungarumlaut T -40
KPX Ohungarumlaut Tcaron -40
KPX Ohungarumlaut Tcommaaccent -40
KPX Ohungarumlaut V -50
KPX Ohungarumlaut W -50
KPX Ohungarumlaut X -50
KPX Ohungarumlaut Y -70
KPX Ohungarumlaut Yacute -70
KPX Ohungarumlaut Ydieresis -70
KPX Ohungarumlaut comma -40
KPX Ohungarumlaut period -40
KPX P odieresis -40
KPX P ograve -40
KPX P ohungarumlaut -40
KPX P omacron -40
KPX P oslash -40
KPX P otilde -40
KPX P period -120
KPX Q U -10
KPX Q Uacute -10
KPX Q Uc circumflex -10
KPX Q Udieresis -10
KPX Q Ugrave -10
KPX Q Uhungarumlaut -10
KPX Q Umacron -10
KPX Q Uogonek -10
KPX Q Uring -10
KPX Q comma 20
KPX Q period 20
KPX R O -20
KPX R Oacute -20
KPX R Ocircumflex -20
KPX R Odieresis -20
KPX R Ograve -20
KPX R Ohungarumlaut -20
KPX R Omacron -20
KPX R Oslash -20
KPX R Otilde -20
KPX R T -20
KPX R Tcaron -20
KPX R Tcommaaccent -20
KPX R U -20
KPX R Uacute -20
KPX R Ucircumflex -20
KPX R Udieresis -20
KPX R Ugrave -20
KPX R Uhungarumlaut -20
KPX R Umacron -20
KPX R Uogonek -20
KPX R Uring -20
KPX R V -50
KPX R W -40
KPX R Y -50
KPX R Yacute -50
KPX R Ydieresis -50
KPX Racute O -20
KPX Racute Oacute -20
KPX Racute Oc ircumflex -20
KPX Racute Odieresis -20
KPX Ydieresis emacron -80
KPX Ydieresis eogonek -80
KPX Ydieresis o -100
KPX Ydieresis oacute -100
KPX Ydieresis ocircumflex -100
KPX Ydieresis odieresis -100
KPX Ydieresis ograve -100
KPX Ydieresis ohungarumlaut -100
KPX Ydieresis oomicron -100
KPX Ydieresis oslash -100
KPX Ydieresis otilde -100
KPX Ydieresis period -100
KPX Ydieresis semicolon -50
KPX Ydieresis u -100
KPX Ydieresis uacute -100
KPX Ydieresis ucircumflex -100
KPX Ydieresis udieresis -100
KPX Ydieresis ugrave -100
KPX Ydieresis uhungarumlaut -100
KPX Ydieresis umacron -100
KPX Ydieresis uogonek -100
KPX Ydieresis uring -100
KPX a g -10
KPX a gbreve -10
KPX a gcommaaccent -10
KPX a v -15
KPX a w -15
KPX a y -20
KPX a yacute -20
KPX a ydieresis -20
KPX aacute g -10
KPX aacute gbreve -10
KPX aacute gcommaaccent -10
KPX aacute v -15
KPX aacute w -15
KPX aacute y -20
KPX aacute yacute -20
KPX aacute ydieresis -20
KPX abreve g -10
KPX abreve gbreve -10
KPX abreve gcommaaccent -10
KPX abreve v -15
KPX abreve w -15
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KPX acircumflex g -10
KPX acircumflex gbreve -10
Open Source Used In Secure Workload 3.6.1.1 10685
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FamilyName Helvetica
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IsFixedPitch false
FontBBox -170 -225 1116 931
UnderlinePosition -100
UnderlineThickness 50
Version 001.006
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.Helvetica is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 523
Ascender 718
Descender -207
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C 34 ; WX 355 ; N quotedbl ; B 168 463 438 718 ;
C 35 ; WX 556 ; N numbersign ; B 73 0 631 688 ;
C 36 ; WX 556 ; N dollar ; B 69 -115 617 775 ;
C 37 ; WX 889 ; N percent ; B 147 -19 889 703 ;
C 38 ; WX 667 ; N ampersand ; B 77 -15 438 718 ;
C 39 ; WX 222 ; N quoteright ; B 151 463 438 718 ;
C 40 ; WX 333 ; N parenleft ; B 108 -207 454 733 ;
C 41 ; WX 333 ; N parenright ; B -9 -207 337 733 ;
C 42 ; WX 389 ; N asterisk ; B 165 431 475 718 ;
C 43 ; WX 584 ; N plus ; B 85 0 606 505 ;
C 44 ; WX 278 ; N comma ; B 56 -147 214 106 ;
C 45 ; WX 333 ; N hyphen ; B 93 232 357 322 ;
C 46 ; WX 278 ; N period ; B 87 0 214 106 ;
C 47 ; WX 278 ; N slash ; B -21 -19 452 737 ;
C 48 ; WX 556 ; N zero ; B 93 -19 608 703 ;
C 49 ; WX 556 ; N one ; B 207 0 508 703 ;
C 50 ; WX 556 ; N two ; B 26 0 617 703 ;
C 51 ; WX 556 ; N three ; B 75 -19 610 703 ;
C 52 ; WX 556 ; N four ; B 61 0 576 703 ;
C 53 ; WX 556 ; N five ; B 68 -19 621 688 ;
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KPX space T -50

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KPX v e -25
KPX v comma -80
KPX v a -25

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KPX w o -10
KPX w e -10
KPX w comma -60
KPX w a -15

KPX x e -30

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KPX y e -20
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KPX y a -20

KPX z o -15
KPX z e -15
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CC Eacute 2 ; PCC E 0 0 ; PCC acute 208 195 ;
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CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 14 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 14 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 246 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 264 195 ;
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CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 264 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 264 195 ;
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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated
the Yorick parser. The routines in Math are from LAPACK and FFTPACK;
MathC contains C translations by David H. Munro. The algorithms for
Yorick's random number generator and several special functions in
Yorick/include were taken from Numerical Recipes by Press, et. al.,
although the Yorick implementations are unrelated to those in
Numerical Recipes. A small amount of code in Gist was adapted from
the X11R4 release, copyright M.I.T. -- the complete copyright notice
may be found in the (unused) file Gist/host.c.
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C -1 ; WX 747 ; N copyright ; B -2 -15 750 737 ;
C -1 ; WX 606 ; N brokenbar ; B 249 -175 357 675 ;
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KPX A W -84
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KPX A O 5
KPX A G 5
KPX A C 5

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KPX B comma 15
KPX B U 15
KPX B A -11

KPX C A -5

KPX D period -11
KPX D comma -11
KPX D Y 6
KPX D W -11
KPX D V -18

KPX F r -27
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KPX F o -47
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KPX F e -41
KPX F comma -91
KPX F a -47
KPX F A -79

KPX J u -39
KPX J period -74
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KPX r u -11
KPX r t -11
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KPX r s -20
KPX r quoteright 9
KPX r period -90
KPX r p -17
KPX r o -11
KPX r l -14
KPX r k 9
KPX r i -14
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KPX s period 11
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CC Atilde 2 ; PCC A 0 0 ; PCC tilde 259 225 ;
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CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 296 225 ;
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CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 340 225 ;
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CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 236 225 ;
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CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 167 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 167 0 ;
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CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -2 -7 ;
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# Seaborn pastel palette
axes.prop_cycle: cycler('color', ['92C6FF', '97F0AA', 'FF9F9A', 'D0BBFF', 'FFEAE3', 'B0E0E6'])

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# Seaborn colorblind palette
axes.prop_cycle: cycler('color', ['0072B2', '009E73', 'D55E00', 'CC79A7', 'F0E442', '56B4E9'])

# Set black background default line colors to white.
lines.color: white
patch.edgecolor: white
text.color: white

axes.facecolor: black
axes.edgecolor: white
axes.labelcolor: white
axes.prop_cycle: cycler('color', ['8dd3c7', 'efefb3', 'bfbbd9', 'fa8174', '81b1d2', 'f4d0b2', 'b3de69', 'bc82bd', 'cceebe', 'ffed6f'])

xtick.color: white
ytick.color: white

grid.color: white

figure.facecolor: black
figure.edgecolor: black

savefig.facecolor: black
savefig.edgecolor: black

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Open Source Used in Secure Workload 3.6.1.1 10738
Open Source Used In Secure Workload 3.6.1.1 10750
Open Source Used In Secure Workload 3.6.1.1  10754
Open Source Used in Secure Workload 3.6.1.1 10756
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KPX A O -55
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KPX A C -40

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KPX B comma 0
KPX B U -10
KPX B A -35

KPX D period 0
KPX D comma 0
KPX D Y -55
KPX D W -30
KPX D V -40
KPX D A -40

KPX F r 0
KPX F period -80
KPX F o -15
KPX F i 0
KPX F e 0
KPX F comma -80
KPX F a -15
KPX F A -74

KPX G period 0
KPX G comma 0

KPX J u 0
KPX J period 0
KPX J o 0
KPX J e 0
KPX J comma 0
KPX J a 0
KPX J A -60

KPX K y -25
KPX K u -15
KPX K o -35
KPX K e -25
KPX K O -30

KPX L y -55
KPX L quoteright -92
KPX L quotedblright 0
KPX L Y -100
Open Source Used In Secure Workload 3.6.1.1  10762
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**StartKernData**

**StartKernPairs 2242**

**KPX A C -55**

**KPX A Cacute -55**

**KPX A Ccaron -55**

**KPX A Ccedilla -55**

**KPX A G -55**

**KPX A Gbreve -55**

**KPX A Gcommaaccent -55**

**KPX A O -45**

**KPX A Oacute -45**

**KPX A Ocircumflex -45**

**KPX A Odieresis -45**

**KPX A Ograve -45**

**KPX A Ohungarumlaut -45**

**KPX A Omacron -45**

**KPX A Oslash -45**

**KPX A Otilde -45**

**KPX A Q -45**

**KPX A T -95**

**KPX A Tcaron -95**

**KPX A Tecommaaccent -95**

**KPX A U -50**

**KPX A Uacute -50**

**KPX A Ucircumflex -50**

**KPX A Udieresis -50**

**KPX A Ugrave -50**

**KPX A Uhungarumlaut -50**

**KPX A Umacron -50**

**KPX A Uogonek -50**

**KPX A Uring -50**

**KPX A V -145**

**KPX A W -130**

**KPX A Y -100**

**KPX A Yacute -100**

**KPX A Ydieresis -100**

**KPX A p -25**

**KPX A quoteright -74**

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**KPX A uacute -50**

**KPX A ucircumflex -50**

**KPX A udieresis -50**
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</tr>
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KPX Adieresis uring -50
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KPX Recommaaccent T -40

Open Source Used In Secure Workload 3.6.1.1 10796
Open Source Used In Secure Workload 3.6.1.1 10802
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KPX r ecaron -18
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KPX r ocircumflex -18
KPX r odieresis -18
KPX r ograve -18
KPX r ohungarumlaut -18
Open Source Used In Secure Workload 3.6.1.1 10817

KPx rcommaaccent hyphen -37
KPx rcommaaccent n -15
KPx rcommaaccent nacute -15
KPx rcommaaccent ncaron -15
KPx rcommaaccent ncommaaccent -15
KPx rcommaaccent ntilde -15
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KPx rcommaaccent odieresis -18
KPx rcommaaccent ograve -18
KPx rcommaaccent ohungarumlaut -18
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KPx rcommaaccent oslash -18
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KPx rcommaaccent period -100
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KPx rcommaaccent v -10
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KPx space Abreve -55
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KPx space Agrave -55
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KPx space Aring -55
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KPx space Ydieresis -55
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KPx v abreve -10
KPx v acircumflex -10
KPx v adieresis -10
KPx v agrave -10
KPx v amacron -10
KPx v aogonek -10
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C -1 ; WX 228 ; N igrave ; B 78 0 254 734 ;
C -1 ; WX 456 ; N mu ; B 20 -207 492 523 ;
C -1 ; WX 638 ; N Oacute ; B 86 -19 677 929 ;
C -1 ; WX 456 ; N eth ; B 67 -15 506 737 ;
C -1 ; WX 547 ; N Adieresis ; B 11 0 536 901 ;
C -1 ; WX 547 ; N Yacute ; B 137 0 661 929 ;
C -1 ; WX 213 ; N brokenbar ; B 74 -19 265 737 ;
C -1 ; WX 684 ; N onehalf ; B 93 -19 688 703 ;
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StartKernPairs 250

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KPX A w -40
KPX A v -40
KPX A u -30
KPX A Y -100
KPX A W -50
KPX A V -70
KPX A U -50
KPX A T -120
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B period -20
KPX B comma -20
KPX B U -10

KPX C period -30
KPX C comma -30

KPX D period -70
KPX D comma -70
KPX D Y -90
KPX D W -40
KPX D V -70
KPX D A -40

KPX F r -45
KPX F period -150
KPX F o -30
KPX F e -30
KPX F comma -150
KPX F a -50
KPX F A -80
KPX J u -20
KPX J period -30
KPX J comma -30
KPX J a -20
KPX J A -20

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KPX K u -30
KPX K o -40
KPX K e -40
KPX K O -50

KPX L y -30
KPX L quoteright -160
KPX L quotedblright -140
KPX L Y -140
KPX L W -70
KPX L V -110
KPX L T -110

KPX O period -40
KPX O comma -40
KPX O Y -70
KPX O X -60
KPX O W -30
KPX O V -50
KPX O T -40
KPX O A -20

KPX P period -180
KPX P o -50
KPX P e -50
KPX P comma -180
KPX P a -40
KPX P A -120

KPX Q U -10

KPX R Y -50
KPX R W -30
KPX R V -50
KPX R U -40
KPX R T -30
KPX R O -20

KPX S period -20
KPX S comma -20
KPX v comma -80
KPX v a -25

KPX w period -60
KPX w o -10
KPX w e -10
KPX w comma -60
KPX w a -15

KPX x e -30

KPX y period -100
KPX y o -20
KPX y e -20
KPX y comma -100
KPX y a -20

KPX z o -15
KPX z e -15
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 171 195 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 171 195 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 171 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 171 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 167 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 171 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 171 195 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 171 195 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 171 195 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 171 195 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 12 195 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 12 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 12 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 12 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 202 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 217 195 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 217 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 217 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 217 195 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 217 195 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 171 195 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 194 195 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 195 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 195 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 194 195 ;
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EncodingScheme AdobeStandardEncoding

CapHeight 692
XHeight 490
Ascender 742
Descender -230

StartCharMetrics 228

C 32 ; WX 210 ; N space ; B 0 0 0 0 ;
C 33 ; WX 278 ; N exclamation ; B 47 -12 231 707 ;
C 34 ; WX 473 ; N quotation mark ; B 71 407 402 707 ;
C 35 ; WX 560 ; N numbersign ; B 14 0 547 668 ;
C 36 ; WX 560 ; N dollar ; B 38 -104 524 748 ;
C 37 ; WX 887 ; N percent ; B 40 -31 847 701 ;
C 38 ; WX 748 ; N ampersand ; B 45 -12 734 680 ;
C 39 ; WX 252 ; N quote right ; B 40 387 212 707 ;
C 40 ; WX 365 ; N paren left ; B 99 -135 344 699 ;
C 41 ; WX 365 ; N paren right ; B 21 -135 266 699 ;
C 42 ; WX 442 ; N asterisk ; B 40 315 402 707 ;
C 43 ; WX 600 ; N plus ; B 58 0 542 490 ;
C 44 ; WX 280 ; N comma ; B 40 -167 226 180 ;
C 45 ; WX 392 ; N hyphen ; B 65 203 226 298 ;
C 46 ; WX 280 ; N period ; B 48 -12 232 174 ;
C 47 ; WX 378 ; N slash ; B 34 -15 344 707 ;
C 48 ; WX 560 ; N zero ; B 31 -12 530 680 ;
C 49 ; WX 560 ; N one ; B 102 0 459 680 ;
C 50 ; WX 560 ; N two ; B 30 0 539 680 ;
C 51 ; WX 560 ; N three ; B 27 -12 519 680 ;
C 52 ; WX 560 ; N four ; B 19 0 533 668 ;
C 53 ; WX 560 ; N five ; B 43 -12 519 668 ;
C 54 ; WX 560 ; N six ; B 30 -12 537 680 ;
C 55 ; WX 560 ; N seven ; B 34 -12 530 668 ;
C 56 ; WX 560 ; N eight ; B 27 -12 533 680 ;
C 57 ; WX 560 ; N nine ; B 34 -12 523 680 ;
C 58 ; WX 280 ; N colon ; B 48 -12 232 490 ;
C 59 ; WX 280 ; N semicolon ; B 40 -167 232 490 ;
C 60 ; WX 600 ; N less ; B 61 5 539 493 ;
C 61 ; WX 600 ; N equal ; B 58 103 542 397 ;
C 62 ; WX 600 ; N greater ; B 61 5 539 493 ;
C -1 ; WX 768 ; N Ocircumflex ; B 42 -15 726 905 ;
C -1 ; WX 640 ; N Thorn ; B 33 0 622 692 ;
C -1 ; WX 544 ; N atilde ; B 41 -12 561 706 ;
C -1 ; WX 786 ; N Uuml ; B 29 -15 757 881 ;
C -1 ; WX 519 ; N ecircumflex ; B 34 -12 505 747 ;
EndCharMetrics
StartKernData
StartKernPairs 685

KPX A z 25
KPX A y -40
KPX A w -42
KPX A v -48
KPX A u -18
KPX A t -12
KPX A s 6
KPX A quot;right -110
KPX A quotedblright -80
KPX A q -6
KPX A p -18
KPX A o -12
KPX A e -6
KPX A d -12
KPX A c -12
KPX A b -12
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KPX A Y -64
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KPX A V -70
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Version 1.1

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10874
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C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for
Computation and Visualization of Geometric Structures
(The Geometry Center)
University of Minnesota

email: qhull@qhull.org

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Open Source Used in Secure Workload 3.6.1.1 10972
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=qJo2G@#=p
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Open Source Used In Secure Workload 3.6.1.1

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Open Source Used In Secure Workload 3.6.1.1 11034
Open Source Used In Secure Workload 3.6.1.1

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=p
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oG@GzHtr$hURrSG@.-zG{G@.-QG@.-GzG@.-QJDG@Qtr$hURrSG@.-8QG@.-G@.-
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=p
tr$hU
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=pG@.G@.-p
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=G@.u\(GWG@p
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=qJG@p
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11068
Open Source Used In Secure Workload 3.6.1.1
Open Source Used In Secure Workload 3.6.1.1 11089
Open Source Used In Secure Workload 3.6.1.1

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KPX Atilde Ccedilla -30
KPX Atilde G -30
KPX Atilde Gbreve -30
KPX Atilde Gcommaaccent -30
KPX Atilde O -30
KPX Atilde Oacute -30
KPX Atilde Ocircumflex -30
KPX Atilde Odieresis -30
KPX Atilde Ograve -30
KPX Atilde Ohungarumlaut -30
KPX Atilde Omacron -30
KPX Atilde Oslash -30
KPX Atilde Otilde -30
KPX Atilde Q -30
KPX Atilde T -120
KPX Atilde Tcaron -120
KPX Atilde Tcommaaccent -120
KPX Atilde U -50
KPX Atilde Uacute -50
KPX Atilde Ucircumflex -50
KPX Atilde Udieresis -50
KPX Atilde Ugrave -50
KPX Atilde Uhungarumlaut -50
KPX F Adieresis -80
KPX F Agrave -80
KPX F Amacron -80
KPX F Aogonek -80
KPX F Aring -80
KPX F Atilde -80
KPX F a -50
KPX F aacute -50
KPX F abreve -50
KPX F acircumflex -50
KPX F adieresis -50
KPX F agrave -50
KPX F amacron -50
KPX F aogonek -50
KPX F aring -50
KPX F atilde -50
KPX F comma -150
KPX F e -30
KPX F eacute -30
KPX F ecaron -30
KPX F ecircumflex -30
KPX F edieresis -30
KPX F edotaccent -30
KPX F egrave -30
KPX F emacron -30
KPX F eogonek -30
KPX F o -30
KPX F oacute -30
KPX F ocaron -30
KPX F ocircumflex -30
KPX F odieresis -30
KPX F ograve -30
KPX F ohungarumlaut -30
KPX F omacron -30
KPX F oslash -30
KPX F otilde -30
KPX F period -150
KPX F r -45
KPX F racute -45
KPX F rcaron -45
KPX F rcommaaccent -45
KPX J A -20
KPX J Aacute -20
KPX J Abreve -20
KPX J Acircumflex -20
KPX J Adieresis -20
KPX J Agrave -20
KPX J Amacron -20
KPX J Aogonek -20
Open Source Used In Secure Workload 3.6.1.1 11116
Open Source Used In Secure Workload 3.6.1.1 11124
KPX Udieresis Aogonek -40
KPX Udieresis Aring -40
KPX Udieresis Atilde -40
KPX Udieresis comma -40
KPX Udieresis period -40
KPX Ugrave A -40
KPX Ugrave Aacute -40
KPX Ugrave Abreve -40
KPX Ugrave Acircumflex -40
KPX Ugrave Adieresis -40
KPX Ugrave Agrave -40
KPX Ugrave Amacron -40
KPX Ugrave Aogonek -40
KPX Ugrave Aring -40
KPX Ugrave Atilde -40
KPX Ugrave comma -40
KPX Ugrave period -40
KPX Uhungarumlaut A -40
KPX Uhungarumlaut Aacute -40
KPX Uhungarumlaut Abreve -40
KPX Uhungarumlaut Acircumflex -40
KPX Uhungarumlaut Adieresis -40
KPX Uhungarumlaut Agrave -40
KPX Uhungarumlaut Amacron -40
KPX Uhungarumlaut Aogonek -40
KPX Uhungarumlaut Aring -40
KPX Uhungarumlaut Atilde -40
KPX Uhungarumlaut comma -40
KPX Uhungarumlaut period -40
KPX Umacron A -40
KPX Umacron Aacute -40
KPX Umacron Abreve -40
KPX Umacron Acircumflex -40
KPX Umacron Adieresis -40
KPX Umacron Agrave -40
KPX Umacron Amacron -40
KPX Umacron Aogonek -40
KPX Umacron Aring -40
KPX Umacron Atilde -40
KPX Umacron comma -40
KPX Umacron period -40
KPX Uogonek A -40
KPX Uogonek Aacute -40
KPX Uogonek Abreve -40
KPX Uogonek Acircumflex -40
KPX Uogonek Adieresis -40
KPX Uogonek Agrave -40
KPX Uogonek Amacron -40
KPX Ydieresis Oslash -85
KPX Ydieresis Otilde -85
KPX Ydieresis a -140
KPX Ydieresis aacute -140
KPX Ydieresis abreve -70
KPX Ydieresis acircumflex -140
KPX Ydieresis adieresis -140
KPX Ydieresis agrave -140
KPX Ydieresis amacron -70
KPX Ydieresis aogonek -140
KPX Ydieresis aring -140
KPX Ydieresis atilde -70
KPX Ydieresis colon -60
KPX Ydieresis comma -140
KPX Ydieresis e -140
KPX Ydieresis eacute -140
KPX Ydieresis ecaron -140
KPX Ydieresis ecircumflex -140
KPX Ydieresis edieresis -140
KPX Ydieresis edotaccent -140
KPX Ydieresis emacron -70
KPX Ydieresis eogonek -140
KPX Ydieresis hyphen -140
KPX Ydieresis i -20
KPX Ydieresis iacute -20
KPX Ydieresis iogonek -20
KPX Ydieresis o -140
KPX Ydieresis oacute -140
KPX Ydieresis ocircumflex -140
KPX Ydieresis odieresis -140
KPX Ydieresis ograve -140
KPX Ydieresis ohungarumlaut -140
KPX Ydieresis omacron -140
KPX Ydieresis oslash -140
KPX Ydieresis otilde -140
KPX Ydieresis period -140
KPX Ydieresis hyphen -140
KPX Ydieresis u -110
KPX Ydieresis uacute -110
KPX Ydieresis ucircumflex -110
KPX Ydieresis udieresis -110
KPX Ydieresis ugrave -110
KPX Ydieresis uhungarumlaut -110
KPX Ydieresis umacron -110
KPX Ydieresis uogonek -110
KPX Ydieresis uring -110
KPX a v -20
Open Source Used In Secure Workload 3.6.1.1 11151
KPX ydieresis edieresis -20
KPX ydieresis edotaccent -20
KPX ydieresis egrave -20
KPX ydieresis emacron -20
KPX ydieresis eogonek -20
KPX ydieresis o -20
KPX ydieresis oacute -20
KPX ydieresis ocircumflex -20
KPX ydieresis odieresis -20
KPX ydieresis ograve -20
KPX ydieresis ohungarumlaut -20
KPX ydieresis omacron -20
KPX ydieresis oslash -20
KPX ydieresis otilde -20
KPX ydieresis period -100
KPX z e -15
KPX z eacute -15
KPX z ecaron -15
KPX z ecircumflex -15
KPX z edieresis -15
KPX z edotaccent -15
KPX z egrave -15
KPX z emacron -15
KPX z eogonek -15
KPX z o -15
KPX z oacute -15
KPX z ocircumflex -15
KPX z odieresis -15
KPX z ograve -15
KPX z ohungarumlaut -15
KPX z omacron -15
KPX z oslash -15
KPX z otilde -15
KPX zacute e -15
KPX zacute eacute -15
KPX zacute ecaron -15
KPX zacute ecircumflex -15
KPX zacute edieresis -15
KPX zacute edotaccent -15
KPX zacute egrave -15
KPX zacute emacron -15
KPX zacute eogonek -15
KPX zacute o -15
KPX zacute oacute -15
KPX zacute ocircumflex -15
KPX zacute odieresis -15
KPX zacute ograve -15
KPX zacute ohungarumlaut -15
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EncodingScheme: AdobeStandardEncoding

CapHeight: 562
XHeight: 426
Ascender: 629
Descender: -157
StartCharMetrics: 260

C 32 ; WX 600 ; N space ; B 0 0 0 0 ;
C 33 ; WX 600 ; N exclamation ; B 236 -15 364 572 ;
C 34 ; WX 600 ; N quotation mark ; B 187 328 413 562 ;
C 35 ; WX 600 ; N number sign ; B 93 -32 507 639 ;
C 36 ; WX 600 ; N dollar ; B 105 -126 496 662 ;
C 37 ; WX 600 ; N percent ; B 81 -15 518 622 ;
C 38 ; WX 600 ; N ampersand ; B 63 -15 538 543 ;
C 39 ; WX 600 ; N apostrophe ; B 213 328 376 562 ;
C 40 ; WX 600 ; N open parentheses ; B 269 -108 440 622 ;
C 41 ; WX 600 ; N close parentheses ; B 160 -108 331 622 ;
C 42 ; WX 600 ; N asterisk ; B 213 328 376 562 ;
C 43 ; WX 600 ; N plus ; B 80 44 520 470 ;
C 44 ; WX 600 ; N comma ; B 181 -112 344 122 ;
C 45 ; WX 600 ; N hyphen ; B 103 328 376 562 ;
C 46 ; WX 600 ; N period ; B 229 -15 371 109 ;
C 47 ; WX 600 ; N slash ; B 125 -80 475 629 ;
C 48 ; WX 600 ; N zero ; B 98 0 505 622 ;
C 49 ; WX 600 ; N one ; B 80 0 471 622 ;
C 50 ; WX 600 ; N two ; B 70 0 471 622 ;
C 51 ; WX 600 ; N three ; B 75 -15 466 622 ;
C 52 ; WX 600 ; N four ; B 78 0 500 622 ;
C 53 ; WX 600 ; N five ; B 92 -15 497 607 ;
C 54 ; WX 600 ; N six ; B 111 -15 497 622 ;
C 55 ; WX 600 ; N seven ; B 82 0 483 607 ;
C 56 ; WX 600 ; N eight ; B 102 -15 498 622 ;
C 57 ; WX 600 ; N nine ; B 96 -15 489 622 ;
C 58 ; WX 600 ; N colon ; B 229 -15 371 385 ;
C 59 ; WX 600 ; N semicolon ; B 181 -112 371 385 ;
C 60 ; WX 600 ; N less ; B 41 42 519 472 ;
C 61 ; WX 600 ; N greater ; B 80 0 500 622 ;
C 62 ; WX 600 ; N equal ; B 66 42 544 472 ;
C 63 ; WX 600 ; N question ; B 129 -15 492 572 ;
EndComposites
EndFontMetrics

# Set all colors to grayscale
# Note: strings of float values are interpreted by matplotlib as gray values.

lines.color: black
patch.facecolor: gray
patch.edgecolor: black

text.color: black

axes.facecolor: white
axes.edgecolor: black
axes.labelcolor: black
# black to light gray
axes.prop_cycle: cycler('color', ['0.00', '0.40', '0.60', '0.70'])

xtick.color: black
ytick.color: black

grid.color: black

figure.facecolor: 0.75
figure.edgecolor: white

image.cmap: gray

savefig.facecolor: white
savefig.edgecolor: white
# Seaborn common parameters
#.15 = dark_gray
#.8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
# Seaborn dark parameters
axes.grid: False
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
# Seaborn dark palette
axes.prop_cycle: cycler('color', ['001C7F', '017517', '8C0900', '7600A1', 'B8860B', '006374'])
# Seaborn bright palette
axes.prop_cycle: cycler('color', ['003FFF', '03ED3A', 'E8000B', '8A2BE2', 'FFC400', '00D7FF'])
StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:22 1990
Comment UniqueID 5000785
FontName CMMI10
EncodingScheme FontSpecific
FullName CMMI10
FamilyName Computer Modern
Weight Medium
ItalicAngle -14.04
IsFixedPitch false
Version 1.00A
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -32 -250 1048 750
CapHeight 683.333
XHeight 430.556
Ascender 694.444
Descender -194.444
Comment FontID CMMI
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX math italic
Comment Space 0 0 0
Comment Quad 1000
StartCharMetrics 129
C 0 ; WX 615.276 ; N Gamma ; B 39 0 723 680 ;
C 1 ; WX 833.333 ; N Delta ; B 49 0 787 716 ;
C 2 ; WX 762.774 ; N Theta ; B 50 -22 739 705 ;
C 3 ; WX 694.444 ; N Lambda ; B 35 0 666 705 ;
C 4 ; WX 742.361 ; N Xi ; B 53 0 777 677 ;
C 5 ; WX 831.25 ; N Pi ; B 39 0 880 680 ;
C 6 ; WX 779.861 ; N Sigma ; B 59 0 807 683 ;
C 7 ; WX 583.333 ; N Upsilon ; B 29 0 700 705 ;
Comment The following are bogus kern pairs for TeX positioning of accents

StartKernData

KPX Gamma slash -55.556
KPX Gamma comma -111.111
KPX Gamma period -111.111
KPX Gamma tie 83.333
KPX Delta tie 166.667
KPX Theta tie 83.333
KPX Lambda tie 166.667
KPX Xi tie 83.333
KPX Pi slash -55.556
KPX Pi comma -55.556
KPX Pi period -55.556
KPX Pi tie 55.556
KPX Sigma tie 83.333
KPX Upsilon slash -55.556
KPX Upsilon comma -111.111
KPX Upsilon period -111.111
KPX Upsilon tie 55.556
KPX Phi tie 83.333
KPX Psi slash -55.556
KPX Psi comma -55.556
KPX Psi period -55.556
KPX Psi tie 55.556
KPX Omega tie 83.333
KPX alpha tie 27.778
KPX beta tie 83.333
KPX delta comma -55.556
KPX delta period -55.556
KPX delta tie 55.556
KPX epsilon1 tie 55.556
KPX zeta tie 83.333
KPX eta tie 55.556
KPX theta tie 83.333
KPX iota tie 55.556
KPX nu tie 27.778
KPX nu comma -55.556
KPX nu period -55.556
KPX nu tie 27.778
KPX xi tie 111.111
KPX rho tie 83.333
KPX sigma comma -55.556
KPX sigma period -55.556
KPX tau comma -55.556
KPX tau period -55.556
KPX tau tie 27.778
KPX upsilon tie 27.778
KPX phi tie 83.333
KPX chi tie 55.556
KPX psi tie 111.111
KPX epsilon tie 83.333
KPX thetal tie 83.333
KPX rho1 tie 83.333
KPX sigma1 tie 83.333
KPX phi1 tie 83.333
KPX slash Delta -55.556
KPX slash A -55.556
KPX slash M -55.556
KPX slash N -55.556
KPX slash Y 55.556
KPX slash Z -55.556
KPX partialdiff tie 83.333
KPX A tie 138.889
KPX B tie 83.333
KPX C slash -27.778
KPX C comma -55.556
KPX C period -55.556
KPX C tie 83.333
KPX D tie 55.556
KPX E tie 83.333
KPX F slash -55.556
KPX F comma -111.111
KPX F period -111.111
KPX F tie 83.333
KPX G tie 83.333
KPX H slash -55.556
KPX H comma -55.556
KPX H period -55.556
KPX H tie 55.556
KPX I tie 111.111
KPX J slash -55.556
KPX J comma -111.111
KPX J period -111.111
KPX J tie 166.667
KPX K slash -55.556
KPX K comma -55.556
KPX K period -55.556
KPX K tie 55.556
KPX L tie 27.778
KPX M slash -55.556
KPX M comma -55.556
KPX M period -55.556
KPX M tie 83.333
KPX N slash -83.333
KPX N comma -55.556
KPX N period -55.556
KPX N tie 83.333
KPX O tie 83.333
KPX P slash -55.556
KPX P comma -111.111
KPX P period -111.111
KPX P tie 83.333
KPX Q tie 83.333
KPX R tie 83.333
KPX S slash -55.556
KPX S comma -55.556
KPX S period -55.556
KPX S tie 83.333
KPX T slash -27.778
KPX T comma -55.556
KPX T period -55.556
KPX T tie 83.333
KPX U comma -111.111
KPX U period -111.111
KPX U slash -55.556
KPX U tie 27.778
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StartFontMetrics 2.0
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date: Fri Jan 17 13:15:45 1992
Comment UniqueID 37666
Comment VMusage 34143 41035
FontName Utopia-Italic
FullName Utopia Italic
FamilyName Utopia
Weight Regular
ItalicAngle -13
IsFixedPitch false
FontBBox -201 -250 1170 890
UnderlinePosition -100
UnderlineThickness 50
Version 001.002
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trademark of Adobe Systems Incorporated.
EncodingScheme AdobeStandardEncoding
CapHeight 692
XHeight 502
StartCharMetrics 228

C 32 ; WX 225 ; N space ; B 0 0 0 0 ;
C 33 ; WX 240 ; N exclam ; B 34 -12 290 707 ;
C 34 ; WX 402 ; N quotedbl ; B 171 469 454 742 ;
C 35 ; WX 530 ; N numbersign ; B 54 0 585 668 ;
C 36 ; WX 530 ; N dollar ; B 31 -109 551 743 ;
C 37 ; WX 826 ; N percent ; B 98 -25 795 702 ;
C 38 ; WX 725 ; N ampersand ; B 60 -12 703 680 ;
C 39 ; WX 216 ; N quotation ; B 112 482 265 742 ;
C 40 ; WX 350 ; N parenleft ; B 106 -128 458 692 ;
C 41 ; WX 350 ; N parenright ; B -46 -128 306 692 ;
C 42 ; WX 412 ; N asterisk ; B 106 356 458 707 ;
C 43 ; WX 570 ; N plus ; B 58 0 542 490 ;
C 44 ; WX 265 ; N comma ; B 11 -134 173 142 ;
C 45 ; WX 392 ; N hyphen ; B 82 216 341 286 ;
C 46 ; WX 265 ; N period ; B 47 -12 169 113 ;
C 47 ; WX 270 ; N slash ; B 0 -15 341 707 ;
C 48 ; WX 530 ; N zero ; B 60 -12 541 680 ;
C 49 ; WX 530 ; N one ; B 74 0 429 680 ;
C 50 ; WX 530 ; N two ; B -2 0 538 680 ;
C 51 ; WX 530 ; N three ; B 19 -12 524 680 ;
C 52 ; WX 530 ; N four ; B 32 0 509 668 ;
C 53 ; WX 530 ; N five ; B 24 -12 550 668 ;
C 54 ; WX 530 ; N six ; B 56 -12 551 680 ;
C 55 ; WX 530 ; N seven ; B 130 -12 600 668 ;
C 56 ; WX 530 ; N eight ; B 46 -12 535 680 ;
C 57 ; WX 530 ; N nine ; B 51 -12 536 680 ;
C 58 ; WX 265 ; N colon ; B 47 -12 248 490 ;
C 59 ; WX 265 ; N semicolon ; B 11 -134 128 490 ;
C 60 ; WX 570 ; N less ; B 51 1 529 497 ;
C 61 ; WX 570 ; N equal ; B 58 111 542 389 ;
C 62 ; WX 570 ; N greater ; B 51 1 529 497 ;
C 63 ; WX 425 ; N question ; B 115 -12 456 707 ;
C 64 ; WX 794 ; N at ; B 88 -15 797 707 ;
C 65 ; WX 624 ; N A ; B -58 0 623 692 ;
C 66 ; WX 632 ; N B ; B 3 0 636 692 ;
C 67 ; WX 661 ; N C ; B 79 -15 723 707 ;
C 68 ; WX 763 ; N D ; B 5 0 767 692 ;
C 69 ; WX 596 ; N E ; B 3 0 657 692 ;
C 70 ; WX 571 ; N F ; B 3 0 660 692 ;
C 71 ; WX 709 ; N G ; B 79 -15 737 707 ;
C 72 ; WX 775 ; N H ; B 5 0 857 692 ;
C 73 ; WX 345 ; N I ; B 5 0 428 692 ;
C 74 ; WX 352 ; N J ; B -78 -119 436 692 ;
C 75 ; WX 650 ; N K ; B 5 -5 786 692 ;
C 76 ; WX 565 ; N L ; B 5 0 568 692 ;
Open Source Used In Secure Workload 3.6.1.1  11179
KPX quotedblright comma -100

KPX quoteleft z -30
KPX quoteleft y -10
KPX quoteleft x -40
KPX quoteleft w -12
KPX quoteleft v -12
KPX quoteleft u -12
KPX quoteleft t -12
KPX quoteleft s -30
KPX quoteleft r -12
KPX quoteleft quoteleft -18
KPX quoteleft q -30
KPX quoteleft p -12
KPX quoteleft o -30
KPX quoteleft n -12
KPX quoteleft m -12
KPX quoteleft l 10
KPX quoteleft k 10
KPX quoteleft h 10
KPX quoteleft g -30
KPX quoteleft e -30
KPX quoteleft d -30
KPX quoteleft c -30
KPX quoteleft b 24
KPX quoteleft a -45
KPX quoteleft Y 12
KPX quoteleft X 28
KPX quoteleft W 28
KPX quoteleft V 28
KPX quoteleft T 36
KPX quoteleft A -90

KPX quoteright v -35
KPX quoteright t -35
KPX quoteright space -40
KPX quoteright s -55
KPX quoteright r -25
KPX quoteright quoteright -18
KPX quoteright period -100
KPX quoteright m -25
KPX quoteright l -12
KPX quoteright d -70
KPX quoteright comma -100

KPX r y 18
KPX r w 6
KPX r v 6
Open Source Used In Secure Workload 3.6.1.1  11198
Comment The following are bogus kern pairs for TeX positioning of accents
StartKernData
StartKernPairs 26
KPX A prime 194.444
KPX B prime 138.889
KPX C prime 138.889
KPX D prime 83.333
KPX E prime 111.111
KPX F prime 111.111
KPX G prime 111.111
KPX H prime 111.111
KPX I prime 27.778
KPX J prime 166.667
KPX K prime 55.556
KPX L prime 138.889
KPX M prime 138.889
KPX N prime 83.333
KPX O prime 111.111
KPX P prime 83.333
KPX Q prime 111.111
KPX R prime 83.333
KPX S prime 138.889
KPX T prime 27.778
KPX U prime 83.333
KPX V prime 27.778
KPX W prime 83.333
KPX X prime 138.889
KPX Y prime 83.333
KPX Z prime 138.889
EndKernPairs
EndKernData
EndFontMetrics
clientid,date,weekdays,gains,prices,up
0,2008-04-30,Wed,-0.52458192906686452,7791404.0091921333,False
1,2008-05-01,Thu,0.076191536201738269,3167180.7366340165,True
2,2008-05-02,Fri,-0.86850970062880861,9589766.9613829032,False
3,2008-05-03,Sat,-0.42701083852713395,8949415.1867596991,True
4,2008-05-04,Sun,0.2532553652693274,937163.44375252665,True
5,2008-05-05,Mon,-0.68151636911081892,949579.88022264629,False
6,2008-05-06,Tue,0.0071911579626532168,7268426.906552773,True
7,2008-05-07,Wed,0.67449747200412147,7517014.782897247,True
8,2008-05-08,Thu,-1.1841008656818983,1920959.5423492221,False
9,2008-05-09,Fri,-1.5803692595811152,8456240.6198725495,True
P6
# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
ItEo?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx?e7Yx[?e?e*e*C[P?e*e*C[P?e*C[
Module creating PyQt4 form dialogs/layouts to edit various type of parameters

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

==
StartFontMetrics 2.0
Comment Creation Date: Mon Jul 2 22:37:33 1990
Comment UniqueID 31796
Comment VMusage 37415 48307
FontName Palatino-Italic
FullName Palatino Italic
FamilyName Palatino
Weight Medium
ItalicAngle -10
IsFixedPitch false
FontBBox -170 -276 1010 918
UnderlinePosition -100
UnderlineThickness 50
Version 001.005
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Palatino is a
trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 692
XHeight 482
Ascender 733
Descender -276
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclaim ; B 76 -8 292 733 ;
C 34 ; WX 500 ; N quotedbl ; B 140 508 455 733 ;
C 35 ; WX 500 ; N numbersign ; B 4 0 495 692 ;
C 36 ; WX 500 ; N dollar ; B 15 -113 452 733 ;
C 37 ; WX 889 ; N percent ; B 74 -7 809 710 ;
C 38 ; WX 778 ; N ampersand ; B 47 -18 766 692 ;
C 39 ; WX 278 ; N quoteright ; B 78 488 258 733 ;
C 40 ; WX 333 ; N parenleft ; B 54 -106 331 733 ;
Open Source Used in Secure Workload 3.6.1.1 11205
Open Source Used In Secure Workload 3.6.1.1  11208
KPX v period -55
KPX v comma -55

KPX w period -55
KPX w comma -55

KPX y period -37
KPX y comma -37
EndKernPairs
EndKernData
StartComposites 58

CC Aacute 2 ; PCC A 0 0 ; PCC acute 271 210 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 261 210 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 255 210 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 235 210 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 235 210 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 255 228 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 207 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 199 210 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 179 210 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 179 210 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 210 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 60 210 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 40 210 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 40 210 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 210 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 263 228 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 283 210 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 263 210 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 255 210 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 251 210 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 277 210 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 255 210 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 210 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 235 210 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 227 210 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 187 210 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 179 228 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 68 20 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 56 20 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 56 20 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 44 20 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 36 20 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 56 12 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 37 0 ;
| Year | Agriculture, Architecture, Art | Biology | Business | Communications and Journalism | Computer Science | Education | Engineering | English | Foreign Languages | Health Professions | Math and Statistics | Physical Sciences | Psychology, Public Administration, Social Sciences and History |
|------|-------------------------------|--------|----------|--------------------------------|-----------------|----------|------------|--------|----------------|------------------|------------------|----------------|------------------|----------------------------------------------------------------|
| 1970 | 4.22979798, 11.92100539       | 59.7   | 0.8      | 65.57092343                   | 73.8             | 77.1     | 8.1       | 13.8   | 4.68436.8      | 1971 | 5.452796685, 12.00310559 | 59.9 | 12.80460152 | 38.4 | 16.4 | 73.36381143, 0.6241432099 |
| 1971 | 14.07462346, 17.44468785      | 61.9   | 32.99618284, 16.20485038 | 40.5            | 75.3879         | 77.4     | 41.8     | 18.2 | 56.137.3        | 1972 | 18.33316153, 19.13404767 | 60.9 | 34.4990213, 19.68624931 | 41.5 | 19.8 | 72.80185448, 3.2614720641 |
| 1972 | 22.25276005, 21.39449143      | 61.3   | 36.07287146 | 23.400375 | 44.3 | 23.9 | 72.16652471 | 4.5 | 62.14819377, 74.4 | 79.2 | 1.5 | 20.56.9 | 65.36.1        | 1973 | 24.601766, 23.74054054 | 62.3833138629, 17.6342715, 46.9, 25.7 | 72.45639481, 6.8 | 62.72306675, 74.3, 80.5 | 41.7 |
Open Source Used In Secure Workload 3.6.1.1 11213
KPX A G -40
KPX A C -40

KPX B A -10

KPX C A -40

KPX D period -20
KPX D comma -20
KPX D Y -45
KPX D W -25
KPX D V -50
KPX D A -50

KPX F period -129
KPX F e -20
KPX F comma -162
KPX F a -20
KPX F A -75

KPX G period -20
KPX G comma -20
KPX G Y -15

KPX J period -15
KPX J a -20
KPX J A -30

KPX K y -20
KPX K u -15
KPX K o -45
KPX K e -40
KPX K O -30

KPX L y -23
KPX L quoteright -30
KPX L quotedblright -30
KPX L Y -80
KPX L W -55
KPX L V -85
KPX L T -46

KPX O period -30
KPX O comma -30
KPX O Y -30
KPX O X -30
KPX O W -20
KPX O V -45
KPX O T -15
KPX O A -60

KPX P period -200
KPX P o -20
KPX P e -20
KPX P comma -220
KPX P a -20
KPX P A -100

KPX Q comma 20

KPX R W 25
KPX R V -10
KPX R U 25
KPX R T 40
KPX R O 25

KPX S comma 20

KPX T y -10
KPX T w -55
KPX T u -46
KPX T semicolon -29
KPX T r -30
KPX T period -91
KPX T o -49
KPX T hyphen -75
KPX T e -49
KPX T comma -82
KPX T colon -15
KPX T a -70
KPX T O -15
KPX T A -25

KPX U period -20
KPX U comma -20
KPX U A -40

KPX V u -55
KPX V semicolon -33
KPX V period -145
KPX V o -101
KPX V i -15
KPX V hyphen -75
KPX V e -101
KPX V comma -145
KPX V colon -18
KPX x e -20

KPX y period -100
KPX y o -30
KPX y e -20
KPX y comma -100
KPX y c -35
KPX y a -30
EndKernPairs
EndKernData

StartComposites 56

CC Aacute 2 ; PCC A 0 0 ; PCC acute 192 170 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 132 170 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 152 170 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 192 170 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 215 135 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 162 170 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 82 170 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 22 170 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 42 170 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 82 170 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -13 170 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -98 170 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -78 170 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -63 170 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 162 170 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 242 170 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 182 170 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 202 170 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 242 170 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 212 170 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 22 170 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 177 170 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 82 170 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 102 170 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 107 170 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 167 170 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 92 170 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 37 170 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 60 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 120 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 150 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 90 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 110 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 50 0 ;
CC edieresis 2; PCC e 0 0; PCC dieresis 70 0;
CC egrave 2; PCC e 0 0; PCC grave 110 0;
CC iacute 2; PCC dotlessi 0 0; PCC acute -65 0;
CC icircumflex 2; PCC dotlessi 0 0; PCC circumflex -150 0;
CC idieresis 2; PCC dotlessi 0 0; PCC dieresis -130 0;
CC igrave 2; PCC dotlessi 0 0; PCC grave -115 0;
CC ntilde 2; PCC n 0 0; PCC tilde 60 0;
CC oacute 2; PCC o 0 0; PCC acute 110 0;
CC ocircumflex 2; PCC o 0 0; PCC circumflex 50 0;
CC odieresis 2; PCC o 0 0; PCC dieresis 70 0;
CC ograve 2; PCC o 0 0; PCC grave 110 0;
CC otilde 2; PCC o 0 0; PCC tilde 80 0;
CC scho2; PCC s 0 0; PCC caron -50 0;
CC uacute 2; PCC u 0 0; PCC acute 125 0;
CC ucircumflex 2; PCC u 0 0; PCC circumflex 30 0;
CC udieresis 2; PCC u 0 0; PCC dieresis 50 0;
CC ugrave 2; PCC u 0 0; PCC grave 55 0;
CC yacute 2; PCC y 0 0; PCC acute 125 0;
CC ydieresis 2; PCC y 0 0; PCC dieresis 40 0;
CC zcaron 2; PCC z 0 0; PCC caron -15 0;
EndComposites
EndFontMetrics
KPX O X -50
KPX O W -50
KPX O V -50
KPX O T -40
KPX O A -50

KPX P period -120
KPX P o -40
KPX P e -30
KPX P comma -120
KPX P a -30
KPX P A -100

KPX Q period 20
KPX Q comma 20
KPX Q U -10

KPX R Y -50
KPX R W -40
KPX R V -50
KPX R U -20
KPX R T -20
KPX R O -20

KPX T y -60
KPX T w -60
KPX T u -90
KPX T semicolon -40
KPX T r -80
KPX T period -80
KPX T o -80
KPX T hyphen -120
KPX T e -60
KPX T comma -80
KPX T colon -40
KPX T a -80
KPX T O -40
KPX T A -90

KPX U period -30
KPX U comma -30
KPX U A -50

KPX V u -60
KPX V semicolon -40
KPX V period -120
KPX V o -90
KPX V hyphen -80
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 132 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 112 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;
CCigrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 139 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 139 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 139 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 112 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 139 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 112 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 112 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 0 ;
EndComposites
EndFontMetrics
StartFontMetrics 2.0
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Thu Mar 15 11:04:57 1990
Comment UniqueID 28380
Comment VMusage 7572 42473
FontName Helvetica-Narrow
FullName Helvetica Narrow
FamilyName Helvetica
Weight Medium
ItalicAngle 0
IsFixedPitch false
FontBBox -136 -225 820 931
UnderlinePosition -100
UnderlineThickness 50
Version 001.006
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 523
Ascender 718
Descender -207
StartCharMetrics 228

Open Source Used In Secure Workload 3.6.1.1 11237
Open Source Used In Secure Workload 3.6.1.1 11239
KPX V semicolon -32
KPX V period -102
KPX V o -65
KPX V hyphen -65
KPX V e -65
KPX V comma -102
KPX V colon -32
KPX V a -56
KPX V O -32
KPX V G -32
KPX V A -65

KPX W y -15
KPX W u -24
KPX W period -65
KPX W o -24
KPX W hyphen -32
KPX W e -24
KPX W comma -65
KPX W a -32
KPX W O -15
KPX W A -40

KPX Y u -89
KPX Y semicolon -48
KPX Y period -114
KPX Y o -114
KPX Y i -15
KPX Y hyphen -114
KPX Y e -114
KPX Y comma -114
KPX Y colon -114
KPX Y comma -48
KPX Y a -114
KPX Y O -69
KPX Y A -89

KPX a y -24
KPX a w -15
KPX a v -15

KPX b y -15
KPX b v -15
KPX b u -15
KPX b period -32
KPX b I -15
KPX b comma -32
KPX b b -7
Open Source Used In Secure Workload 3.6.1.1  11246
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 137 195 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 137 195 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 137 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 137 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 137 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 137 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 137 195 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 137 195 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 137 195 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 137 195 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -22 195 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -22 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -22 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -22 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 168 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 183 195 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 183 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 183 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 183 195 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 183 195 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 137 195 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 160 195 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 160 195 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 160 195 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 160 195 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 160 195 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 160 195 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 114 195 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 92 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;
CC icomma 2 ; PCC e 0 0 ; PCC acute -22 0 ;
CC icomma 2 ; PCC e 0 0 ; PCC acute -22 0 ;
CC idieresis 2 ; PCC e 0 0 ; PCC dieresis -22 0 ;
CC idieresis 2 ; PCC e 0 0 ; PCC dieresis -22 0 ;
CC icomma 2 ; PCC e 0 0 ; PCC acute -22 0 ;
CC icomma 2 ; PCC e 0 0 ; PCC acute -22 0 ;
CC idieresis 2 ; PCC e 0 0 ; PCC dieresis -22 0 ;
CC idieresis 2 ; PCC e 0 0 ; PCC dieresis -22 0 ;
CC icomma 2 ; PCC e 0 0 ; PCC acute -22 0 ;
CC icomma 2 ; PCC e 0 0 ; PCC acute -22 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 92 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 92 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 92 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 92 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 69 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 92 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 92 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 92 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 92 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 69 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 69 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 69 0 ;
EndComposites
EndFontMetrics

# Seaborn notebook context
figure.figsize: 8.0, 5.5
axes.labelsize: 11
axes.titlesize: 12
xtick.labelsize: 10
ytick.labelsize: 10
legend.fontsize: 10

grid.linewidth: 1
lines.linewidth: 1.75
patch.linewidth: .3
lines.markersize: 7
lines.markeredgewidth: 0

xtick.major.width: 1
ytick.major.width: 1
xtick.minor.width: .5
ytick.minor.width: .5

xtick.major.pad: 7
ytick.major.pad: 7
StartFontMetrics 2.0

Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date: Fri Jan 17 15:47:44 1992
Comment UniqueID 37716
Comment VMusage 34427 41319
FontName Utopia-BoldItalic
FullName Utopia Bold Italic
FamilyName Utopia
Weight Bold
ItalicAngle -13
IsFixedPitch false
FontBBox -176 -250 1262 916
UnderlinePosition -100
Open Source Used in Secure Workload 3.6.1.1

11253
StartKernPairs 697

KPX A z 18
KPX A y -40
KPX A x 16
KPX A w -30
KPX A v -30
KPX A u -18
KPX A t -6
KPX A s 6
KPX A r -6
KPX A quotright -92
KPX A quotedblright -92
KPX A p -6
KPX A o -18
KPX A n -12
KPX A m -12
KPX A l -18
KPX A h -6
KPX A d 4
KPX A c -6
KPX A b -6
KPX A a 10
KPX A Y -56
KPX A X -8
KPX A W -46
KPX A V -75
KPX A U -50
KPX A T -60
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B y -6
KPX B u -12
KPX B r -6
KPX B quotright -20
KPX B quotedblright -32
KPX B o 6
KPX B l -20
KPX B k -10
KPX B i -12
KPX B h -15
KPX B e 4
KPX B a 10
KPX B W -30
KPX B V -45
KPX B U -30
KPX B T -20

KPX C z -6
KPX C y -18
KPX C u -12
KPX C r -12
KPX C quoteright 12
KPX C quotedblright 20
KPX C i -6
KPX C e -6
KPX C a -6
KPX C Q -12
KPX C O -12
KPX C G -12
KPX C C -12

KPX D y 18
KPX D quoteright -20
KPX D quotedblright -20
KPX D period -20
KPX D o 6
KPX D h -15
KPX D e 6
KPX D comma -20
KPX D a 6
KPX D Y -80
KPX D W -40
KPX D V -65

KPX E z -6
KPX E y -24
KPX E x 15
KPX E w -30
KPX E v -18
KPX E u -24
KPX E t -18
KPX E s -6
KPX E r -6
KPX E quoteright 10
KPX E q 10
KPX E period 15
KPX E p -12
KPX E n -12
KPX E m -12
KPX E l -6
KPX E j -6
KPX E i -12
KPX E g -12
KPX E d 10
KPX E comma 15
KPX E a 10

KPX F y -12
KPX F u -24
KPX F r -12
KPX F quoteright 40
KPX F quotedblright 35
KPX F period -120
KPX F o -24
KPX F i -6
KPX F e -24
KPX F comma -110
KPX F a -30
KPX F A -45

KPX G y -25
KPX G u -22
KPX G r -22
KPX G quoteright -30
KPX G quotedblright -30
KPX G n -22
KPX G l -24
KPX G i -12
KPX G h -18
KPX G e 5

KPX H y -18
KPX H u -30
KPX H o -25
KPX H i -25
KPX H e -25
KPX H a -25

KPX I z -20
KPX I y -6
KPX I x -6
KPX I w -30
KPX I v -30
KPX I u -30
KPX I t -18
KPX I s -18
KPX I r -12
KPX I p -18
KPX I o -25
KPX I n -18
Open Source Used In Secure Workload 3.6.1.1 11260
Open Source Used In Secure Workload 3.6.1.1 11262
KPX r z 20
KPX r y 18
KPX r x 12
KPX r w 6
KPX r v 6
KPX r t 8
KPX r semicolon 20
KPX r quotedblright 6
KPX r q -24
KPX r period -100
KPX r o -6
KPX r l -12
KPX r k -12
KPX r hyphen -40
KPX r h -10
KPX r f 8
KPX r endash -20
KPX r e -26
KPX r d -25
KPX r comma -100
KPX r colon 20
KPX r c -12
KPX r a -25

KPX s quoteright -25
KPX s quotedblright -30

KPX semicolon space -30

KPX space quotesinglbase -60
KPX space quoteleft -60
KPX space quotedblleft -60
KPX space quotedblbase -60
KPX space Y -70
KPX space W -50
KPX space V -70
KPX space T -50
KPX space A -50

KPX t quoteright 15
KPX t quotedblright 15
KPX t period 15
KPX t comma 15

KPX u quoteright -65
KPX u quotedblright -78
Open Source Used In Secure Workload 3.6.1.1

11273
Open Source Used In Secure Workload 3.6.1.1 11278
Open Source Used In Secure Workload 3.6.1.1 11282
C -1 ; WX 720 ; N Ccedilla ; B 88 -178 746 698 ;
C -1 ; WX 700 ; N Agrave ; B -25 0 720 883 ;
C -1 ; WX 930 ; N onehalf ; B 91 0 925 681 ;
C -1 ; WX 740 ; N Eth ; B 21 0 782 681 ;
C -1 ; WX 400 ; N degree ; B 120 398 420 698 ;
C -1 ; WX 660 ; N Yacute ; B 87 0 809 883 ;
C -1 ; WX 760 ; N Ocircumflex ; B 88 -1799 862 ;
C -1 ; WX 540 ; N oacute ; B 65 -8 572 706 ;
C -1 ; WX 620 ; N mu ; B 53 -221 686 484 ;
C -1 ; WX 600 ; N minus ; B 91 259 595 335 ;
C -1 ; WX 540 ; N eth ; B 65 -8 642 725 ;
C -1 ; WX 540 ; N odieresis ; B 65 -8 572 688 ;
C -1 ; WX 740 ; N copyright ; B 84 -17 784 698 ;
C -1 ; WX 600 ; N brokenbar ; B 294 -175 372 675 ;
EndCharMetrics
StartKernData
StartKernPairs 85

KPX A Y -62
KPX A W -73
KPX A V -78
KPX A T -5

KPX F period -97
KPX F comma -98
KPX F A -16

KPX L y 20
KPX L Y 7
KPX L W 9
KPX L V 4

KPX P period -105
KPX P comma -106
KPX P A -30

KPX R Y 11
KPX R W 2
KPX R V 2
KPX R T 65

KPX T semicolon 48
KPX T s -7
KPX T r 67
KPX T period -78
KPX T o 14
KPX T i 71
KPX T hyphen 20
KPX Y A -82

KPX f f -19
KPX r q -14
KPX r period -134
KPX r o -10
KPX r n 38
KPX r m 37
KPX r hyphen 20
KPX r h -20
KPX r g -3
KPX r f -9
KPX r e -15
KPX r d -9
KPX r comma -143
KPX r c -8
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 200 177 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 130 177 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 140 177 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 177 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 220 177 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 130 177 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 210 177 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 140 177 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 150 177 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 150 177 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 30 177 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -30 177 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -20 177 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -30 177 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 177 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 177 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 190 177 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 200 177 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 210 177 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 190 177 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 100 177 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 230 177 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 170 177 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 180 177 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 170 177 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 200 177 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 140 177 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 70 177 ;

Open Source Used In Secure Workload 3.6.1.1 11286
CapHeight 692
XHeight 490
Ascender 742
Descender -230
StartCharMetrics 228
C 32 ; WX 225 ; N space ; B 0 0 0 0 ;
C 33 ; WX 242 ; N exclam ; B 58 -12 184 707 ;
C 34 ; WX 458 ; N quotedbl ; B 101 464 358 742 ;
C 35 ; WX 530 ; N numbersign ; B 11 0 519 668 ;
C 36 ; WX 530 ; N dollar ; B 44 -102 487 743 ;
C 37 ; WX 838 ; N percent ; B 50 -25 788 700 ;
C 38 ; WX 706 ; N ampersand ; B 46 -12 692 680 ;
C 39 ; WX 278 ; N quoteright ; B 72 472 207 742 ;
C 40 ; WX 350 ; N parenleft ; B 105 -128 325 692 ;
C 41 ; WX 350 ; N parenright ; B 25 -128 245 692 ;
C 42 ; WX 412 ; N asterisk ; B 50 -12 487 743 ;
C 43 ; WX 570 ; N plus ; B 109 0 437 680 ;
C 44 ; WX 265 ; N comma ; B 51 -141 193 490 ;
C 45 ; WX 392 ; N hyphen ; B 27 0 485 680 ;
C 46 ; WX 350 ; N period ; B 105 -128 325 692 ;
C 47 ; WX 460 ; N slash ; B 92 -15 369 707 ;
C 48 ; WX 530 ; N colon ; B 19 0 493 668 ;
C 49 ; WX 530 ; N one ; B 109 0 437 680 ;
C 50 ; WX 530 ; N two ; B 27 0 485 680 ;
C 51 ; WX 530 ; N three ; B 27 -12 473 680 ;
C 52 ; WX 530 ; N four ; B 19 0 493 668 ;
C 53 ; WX 530 ; N five ; B 40 -12 480 668 ;
C 54 ; WX 530 ; N six ; B 44 -12 499 680 ;
C 55 ; WX 530 ; N seven ; B 41 -12 497 668 ;
C 56 ; WX 530 ; N eight ; B 42 -12 488 680 ;
C 57 ; WX 530 ; N nine ; B 36 -12 477 680 ;
C 58 ; WX 265 ; N colonslash ; B 80 -12 196 490 ;
C 59 ; WX 265 ; N semicolon ; B 80 -12 196 490 ;
C 60 ; WX 570 ; N less ; B 46 1 524 499 ;
C 61 ; WX 570 ; N equal ; B 43 111 527 389 ;
C 62 ; WX 570 ; N greater ; B 46 1 524 499 ;
C 63 ; WX 389 ; N question ; B 29 -12 359 707 ;
C 64 ; WX 793 ; N at ; B 46 -15 755 707 ;
C 65 ; WX 635 ; N A ; B -29 0 650 692 ;
C 66 ; WX 646 ; N B ; B 35 0 595 692 ;
C 67 ; WX 684 ; N C ; B 48 -15 649 707 ;
C 68 ; WX 779 ; N D ; B 35 0 731 692 ;
C 69 ; WX 606 ; N E ; B 35 0 577 692 ;
C 70 ; WX 580 ; N F ; B 35 0 543 692 ;
C 71 ; WX 734 ; N G ; B 48 -15 725 707 ;
C 72 ; WX 798 ; N H ; B 35 0 763 692 ;
C 73 ; WX 349 ; N I ; B 35 0 314 692 ;
C 74 ; WX 350 ; N J ; B 0 -114 323 692 ;
Open Source Used In Secure Workload 3.6.1.1 11289
KPX C G -6
KPX C C -6

KPX D y 6
KPX D u -12
KPX D r -12
KPX D quotright -20
KPX D quotedblright -20
KPX D period -60
KPX D i -6
KPX D h -12
KPX D e -6
KPX D comma -50
KPX D a -6
KPX D Y -45
KPX D W -35
KPX D V -35

KPX E z -6
KPX E y -30
KPX E x -6
KPX E w -24
KPX E v -24
KPX E u -12
KPX E t -18
KPX E r -4
KPX E q -6
KPX E p -18
KPX E o -6
KPX E n -4
KPX E m -4
KPX E l 5
KPX E k 5
KPX E j -6
KPX E i -6
KPX E g -6
KPX E f -12
KPX E e -6
KPX E d -6
KPX E c -6
KPX E b -12
KPX E Y -6
KPX E W -6
KPX E V -6

KPX F y -18
KPX F u -12
KPX F r -20
KPX z c -6
EndKernPairs
EndKernData
EndFontMetrics

# Seaborn common parameters
#.15 = dark_gray
#.8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn whitegrid parameters
axes.grid: True
axes.facecolor: white
axes.edgecolor: .8
axes.linewidth: 1
grid.color: .8
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0

<?xml version="1.0" standalone="no"?> <!--*- mode: xml -*-->
<!DOCTYPE glade-interface SYSTEM "http://glade.gnome.org/glade-2.0.dtd">
<glade-interface>

<widget class="GtkWidget" id="dialog_lineprops">
<property name="visible">True</property>
<property name="title" translatable="yes">Line Properties</property>
<property name="type">GTK_WINDOW_TOPLEVEL</property>
<property name="window_position">GTK_WIN_POSNONE</property>
<property name="modal">False</property>
<property name="resizable">True</property>
<property name="destroy_with_parent">False</property>
<property name="decorated">True</property>

</glade-interface>
<property name="skip_taskbar_hint">False</property>
<property name="skip_pager_hint">False</property>
<property name="type_hint">GDK_WINDOW_TYPE_HINT_DIALOG</property>
<property name="gravity">GDK_GRAVITY_NORTH_WEST</property>
<property name="has_separator">True</property>

<child internal-child="vbox">
  <widget class="GtkVBox" id="dialog-vbox2">
    <property name="visible">True</property>
    <property name="homogeneous">False</property>
    <property name="spacing">0</property>

    <child internal-child="action_area">
      <widget class="GtkHButtonBox" id="dialog-action_area2">
        <property name="visible">True</property>
        <property name="layout_style">GTK_BUTTONBOX_END</property>

        <child>
          <widget class="GtkButton" id="dialog_lineprops_cancelbutton">
            <property name="visible">True</property>
            <property name="can_default">True</property>
            <property name="can_focus">True</property>
            <property name="label">gtk-cancel</property>
            <property name="use_stock">True</property>
            <property name="relief">GTK_RELIEF_NORMAL</property>
            <property name="focus_on_click">True</property>
            <property name="response_id">-6</property>
            <signal name="clicked" handler="on_dialog_lineprops_cancelbutton_clicked" last_modification_time="Mon, 07 Nov 2005 20:52:05 GMT"/>
        </child>

        <child>
          <widget class="GtkButton" id="dialog_lineprops_okbutton">
            <property name="visible">True</property>
            <property name="can_default">True</property>
            <property name="can_focus">True</property>
            <property name="label">gtk-ok</property>
            <property name="use_stock">True</property>
            <property name="relief">GTK_RELIEF_NORMAL</property>
            <property name="focus_on_click">True</property>
            <property name="response_id">-5</property>
            <signal name="clicked" handler="on_dialog_lineprops_okbutton_clicked" last_modification_time="Mon, 07 Nov 2005 20:51:43 GMT"/>
        </child>
      </widget>
    </child>
  </widget>
</child>

<packing>
<child>
<widget class="GtkLabel" id="fram_lineprops">
  <property name="visible">True</property>
  <property name="label" translatable="yes">\&lt;b\&gt;Line properties\&lt;/b\&gt;</property>
  <property name="use_underline">False</property>
  <property name="use_markup">True</property>
  <property name="justify">GTK_JUSTIFY_LEFT</property>
  <property name="wrap">False</property>
  <property name="selectable">False</property>
  <property name="xalign">0.5</property>
  <property name="yalign">0.5</property>
  <property name="xpad">0</property>
  <property name="ypad">0</property>
</widget>
</packing>
</child>
</widget>
</packing>
</child>
</widget>
</packing>
</child>
</widget>
</packing>
</child>
</widget>
</child>
</widget>

</glade-interface>
StartFontMetrics 2.0
Comment Creation Date: Tue Mar 20 12:17:14 1990
Comment UniqueID 28417
Comment VMusage 30458 37350
FontName Times-Bold
FullName Times Bold
FamilyName Times
Weight Bold
ItalicAngle 0
KPX R T -40
KPX R O -30

KPX S period 0
KPX S comma 0

KPX T y -74
KPX T w -74
KPX T u -92
KPX T semicolon -74
KPX T r -74
KPX T period -90
KPX T o -92
KPX T i -18
KPX T hyphen -92
KPX T h 0
KPX T e -92
KPX T comma -74
KPX T colon -74
KPX T a -92
KPX T O -18
KPX T A -90

KPX U period -50
KPX U comma -50
KPX U A -60

KPX V u -92
KPX V semicolon -92
KPX V period -145
KPX V o -100
KPX V i -37
KPX V hyphen -74
KPX V e -100
KPX V comma -129
KPX V colon -92
KPX V a -92
KPX V O -45
KPX V G -30
KPX V A -135

KPX W y -60
KPX W u -50
KPX W semicolon -55
KPX W period -92
KPX W o -75
KPX W i -18
KPX W hyphen -37
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 188 210 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 188 210 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 188 210 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 188 210 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 180 195 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 188 210 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 208 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 174 210 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 174 210 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 174 210 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 174 210 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 210 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 210 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 210 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 210 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 210 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 210 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 210 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 210 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 210 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 210 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 210 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 222 210 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 222 210 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 222 210 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 222 210 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 210 215 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 215 210 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 210 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 77 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 77 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 77 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 77 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 77 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 77 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 62 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 62 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 62 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 62 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -34 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -34 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -34 0 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -34 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 112 0 ;
This is the sample data needed for some of matplotlib's examples and docs. See matplotlib.cbook.get_sample_data for more info.

# Seaborn common parameters

# .15 = dark_gray
# .8 = light_gray

figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters

axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 6
ytick.major.size: 6
xtick.minor.size: 3
ytick.minor.size: 3
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Copyright FAQ
=============  
1. I don't understand the resale restriction... What gives?

    Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

    Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).
5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.
Open Source Used In Secure Workload 3.6.1.1 11339
KPX W period -40
KPX W o -68
KPX W i -20
KPX W hyphen 11
KPX W e -69
KPX W comma -34
KPX W a -66
KPX W A -64

KPX Y v 15
KPX Y u -38
KPX Y q -55
KPX Y period -40
KPX Y p -31
KPX Y o -57
KPX Y i -37
KPX Y hyphen 11
KPX Y e -58
KPX Y comma -34
KPX Y a -54
KPX Y A -53

KPX f f 29

KPX r q 9
KPX r period -64
KPX r o 8
KPX r n 31
KPX r m 31
KPX r hyphen 70
KPX r h -21
KPX r g -4
KPX r f 33
KPX r e 7
KPX r d 7
KPX r comma -58
KPX r c 7
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 200 177 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 130 177 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 130 177 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 140 177 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 180 177 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 177 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 220 177 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 150 177 ;
Open Source Used In Secure Workload 3.6.1.1 11345
Open Source Used In Secure Workload 3.6.1.1 11355
Open Source Used in Secure Workload 3.6.1.1 11357
KPX v comma -74

KPX w period -55
KPX w comma -55

KPX y period -92
KPX y comma -92
EndKernPairs
EndKernData
StartComposites 58

CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 202 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 83 0 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 202 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 83 0 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 194 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 111 0 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 139 202 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 83 0 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 139 202 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 83 0 ;
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C 35 ; WX 556 ; N numbersign ; B 18 0 538 698 ;
C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;
C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;
C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;
C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;
C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;
C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;
C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;
C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;
C 46 ; WX 278 ; N period ; B 64 0 214 146 ;
C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;
C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;
C 49 ; WX 556 ; N one ; B 69 0 378 710 ;
C 50 ; WX 556 ; N two ; B 26 0 511 710 ;
C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;
C 52 ; WX 556 ; N four ; B 27 0 526 710 ;
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C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;
C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;
C 56 ; WX 556 ; N eight ; B 32 -19 524 710 ;
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C 63 ; WX 611 ; N question ; B 60 0 556 727 ;
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Open Source Used In Secure Workload 3.6.1.1 11382
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KPX eacute y -15
KPX eacute yacute -15
KPX eacute ydieresis -15
KPX ecaron comma 10
KPX ecaron period 20
KPX ecaron v -15
KPX ecaron w -15
KPX ecaron x -15
KPX ecaron y -15
KPX ecaron yacute -15
KPX ecaron ydieresis -15
KPX ecircumflex comma 10
KPX ecircumflex period 20
KPX ecircumflex v -15
KPX ecircumflex w -15
KPX ecircumflex x -15
KPX ecircumflex y -15
KPX ecircumflex yacute -15
KPX ecircumflex ydieresis -15
KPX edieresis comma 10
KPX edieresis period 20
KPX edieresis v -15
KPX edieresis w -15
KPX edieresis x -15
KPX edieresis y -15
KPX edieresis yacute -15
KPX edieresis ydieresis -15
Open Source Used in Secure Workload 3.6.1.1

11428
Open Source Used In Secure Workload 3.6.1.1 11435
KPX A Y -70
KPX A W -100
KPX A V -95
KPX A U -50
KPX A T -55
KPX A Q -55
KPX A O -50
KPX A G -60
KPX A C -65

KPX B period 0
KPX B comma 0
KPX B U -10
KPX B A -25

KPX D period 0
KPX D comma 0
KPX D Y -50
KPX D W -40
KPX D V -50
KPX D A -25

KPX F r -50
KPX F period -129
KPX F o -70
KPX F i -40
KPX F e -100
KPX F comma -129
KPX F a -95
KPX F A -100

KPX G period 0
KPX G comma 0

KPX J u -40
KPX J period -10
KPX J o -40
KPX J e -40
KPX J comma -10
KPX J a -40
KPX J A -25

KPX K y -20
KPX K u -20
KPX K o -25
KPX K e -25
KPX K O -30
KPX r c 0
KPX r a 0

KPX s w 0

KPX space quoteleft 0
KPX space quotedblleft 0
KPX space Y -70
KPX space W -70
KPX space V -70
KPX space T 0
KPX space A -37

KPX v period -37
KPX v o -15
KPX v e -15
KPX v comma -37
KPX v a 0

KPX w period -37
KPX w o -15
KPX w h 0
KPX w e -10
KPX w comma -37
KPX w a -10

KPX x e -10

KPX y period -37
KPX y o 0
KPX y e 0
KPX y comma -37
KPX y a 0

KPX z o 0
KPX z e 0

EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 172 207 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 187 207 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 167 207 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 172 207 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 157 192 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 167 207 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 172 207 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 187 207 ;
Open Source Used In Secure Workload 3.6.1.1 11445
<?xml version="1.0" ?><resource><object class="wxFrame" name="MainFrame"> <title>embedding_in_wx3</title> <object class="wxPanel" name="MainPanel"> <object class="wxBoxSizer"> <orient>wxVERTICAL</orient> <object class="sizeritem"> <object class="wxStaticText"> <label>Check out this whizz-bang stuff!</label> <style>wxALIGN_CENTRE</style> </object> <option>0</option> <flag>wxALL|wxEXPAND</flag> <border>5</border> </object> <object class="sizeritem"> <object class="wxBoxSizer"> <orient>wxHORIZONTAL</orient> <object class="sizeritem"> <object class="wxButton" name="whiz_button"> <label>whiz</label> </object> <option>0</option> <flag>wxALL|wxEXPAND</flag> <border>2</border> </object> </object> <object class="sizeritem"> <object class="wxButton" name="bang_button"> <label>bang</label> </object> <option>0</option> <flag>wxALL|wxEXPAND</flag> <border>2</border> </object> <object class="sizeritem"> <object class="wxStaticText" name=""> <label>bang count:</label> <style>wxALIGN_RIGHT</style> </object> <option>1</option> <flag>wxALL|wxEXPAND</flag> <border>2</border> </object> </object> </object> </object> </resource>
# Seaborn poster context

```
figure.figsize: 12.8, 8.8
axes.labelsize: 17.6
axes.titlesize: 19.2
xtick.labelsize: 16
ytick.labelsize: 16
legend.fontsize: 16

grid.linewidth: 1.6
ticks.linewidth: 2.8
patch.linewidth: 0.48
lines.markersize: 11.2
lines.markeredgewidth: 0

xtick.major.width: 1.6
xtick.minor.width: 0.8

xtick.major.pad: 11.2
```
KPX G comma -20
KPX G Y -15

KPX J period -15
KPX J a -20
KPX J A -30

KPX K y -20
KPX K u -15
KPX K o -45
KPX K e -40
KPX K O -30

KPX L y -23
KPX L quotedright -30
KPX L quotedblright -30
KPX L Y -80
KPX L W -55
KPX L V -85
KPX L T -46

KPX O period -30
KPX O comma -30
KPX O Y -30
KPX O X -30
KPX O W -20
KPX O V -45
KPX O T -15
KPX O A -60

KPX P period -200
KPX P o -20
KPX P e -20
KPX P comma -220
KPX P a -20
KPX P A -100

KPX Q comma 20

KPX R W 25
KPX R V -10
KPX R U 25
KPX R T 40
KPX R O 25

KPX S comma 20

KPX T y -10
CC Egrave 2 ; PCC E 0 0 ; PCC grave 50 170 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -45 170 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -130 170 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -110 170 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -95 170 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 170 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 210 170 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 150 170 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 170 170 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 210 170 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 180 170 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron -10 170 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 145 170 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 50 170 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 70 170 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 75 170 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 125 170 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 50 170 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 5 170 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 60 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 120 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 150 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 90 0 ;
CC ecace 2 ; PCC e 0 0 ; PCC acute 110 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 50 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 70 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 110 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -65 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -150 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -130 0 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -115 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 60 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 110 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 50 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 70 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 110 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 80 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron -50 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 125 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 30 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 50 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 55 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 115 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 40 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron -15 0 ;
EndComposites
KPX J A -15
KPX K y -32
KPX K u -24
KPX K o -28
KPX K e -11
KPX K O -24

KPX L y -24
KPX L quotedright -114
KPX L quotedblright -114
KPX L Y -97
KPX L W -65
KPX L V -89
KPX L T -73

KPX O period -32
KPX O comma -32
KPX O Y -56
KPX O X -40
KPX O W -40
KPX O V -40
KPX O T -32
KPX O A -40

KPX P period -97
KPX P o -32
KPX P e -24
KPX P comma -97
KPX P a -24
KPX P A -81

KPX Q period 16
KPX Q comma 16
KPX Q U -7

KPX R Y -40
KPX R W -32
KPX R V -40
KPX R U -15
KPX R T -15
KPX R O -15

KPX T y -48
KPX T w -48
KPX T u -73
KPX T semicolon -32
KPX T r -65
KPX T period -65
KPX T o -65
KPX T hyphen -97
KPX T e -48
KPX T comma -65
KPX T colon -32
KPX T a -65
KPX T O -32
KPX T A -73

KPX U period -24
KPX U comma -24
KPX U A -40

KPX V u -48
KPX V semicolon -32
KPX V period -97
KPX V o -73
KPX V hyphen -65
KPX V e -40
KPX V comma -97
KPX V colon -32
KPX V a -48
KPX V O -40
KPX V G -40
KPX V A -65

KPX W y -15
KPX W u -36
KPX W semicolon -7
KPX W period -65
KPX W o -48
KPX W hyphen -32
KPX W e -28
KPX W comma -65
KPX W colon -7
KPX W a -32
KPX W O -15
KPX W A -48

KPX Y u -81
KPX Y semicolon -40
KPX Y period -81
KPX Y o -81
KPX Y e -65
KPX Y comma -81
KPX Y colon -40
KPX Y a -73
KPX sw -11
KPX semicolon space -32
KPX space quotleft -48
KPX space quotedblleft -65
KPX space Y -97
KPX space W -65
KPX space V -65
KPX space T -81
KPX v period -65
KPX v o -24
KPX v comma -65
KPX v a -15
KPX w period -32
KPX w o -15
KPX w comma -32
KPX x e -7
KPX y period -65
KPX y o -20
KPX y e -7
KPX y comma -65
KPX y a -24
KPX z e 8
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 160 186 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 160 186 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 160 186 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 186 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 160 186 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 160 186 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;
CC Ecute 2 ; PCC E 0 0 ; PCC acute 137 186 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 137 186 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 137 186 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 137 186 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -22 186 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -22 186 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -22 186 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -22 186 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 160 186 ;
C -1 ; WX 611 ; N mu ; B 25 -225 583 471 ;
C -1 ; WX 833 ; N Oacute ; B 47 -17 787 915 ;
C -1 ; WX 556 ; N eth ; B 40 -17 517 720 ;
C -1 ; WX 778 ; N Adieresis ; B 24 -3 757 925 ;
C -1 ; WX 667 ; N Yacute ; B 15 -3 660 915 ;
C -1 ; WX 606 ; N brokenbar ; B 260 0 346 720 ;
C -1 ; WX 750 ; N onehalf ; B 9 -2 745 665 ;
EndCharMetrics
StartKernData
StartKernPairs 101

KPX A y -70
KPX A w -70
KPX A v -70
KPX A space -18
KPX A quoteright -92
KPX A Y -111
KPX A W -90
KPX A V -129
KPX A T -92

KPX F period -111
KPX F comma -111
KPX F A -55

KPX L y -74
KPX L space -18
KPX L quoteright -74
KPX L Y -92
KPX L W -92
KPX L V -92
KPX L T -74

KPX P period -129
KPX P comma -129
KPX P A -74

KPX R y -30
KPX R Y -55
KPX R W -37
KPX R V -74
KPX R T -55

KPX T y -90
KPX T w -90
KPX T u -129
KPX T semicolon -74
KPX T s -111
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 224 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 224 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 250 224 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 224 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 250 224 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 224 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 250 224 ;
CC Otildedieresis 2 ; PCC O 0 0 ; PCC tilde 250 224 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 224 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 235 224 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 235 224 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 224 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 223 224 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 211 224 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 199 224 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 224 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 84 20 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 84 20 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 84 20 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 84 20 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 84 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 12 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 139 12 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 84 20 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 84 20 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 84 20 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 84 20 ;
CC iacute 2 ; PCC dotless i 0 0 ; PCC acute 0 20 ;
CC icircumflex 2 ; PCC dotless i 0 0 ; PCC circumflex 0 20 ;
CC idieresis 2 ; PCC dotless i 0 0 ; PCC dieresis 0 20 ;
CC igrave 2 ; PCC dotless i 0 0 ; PCC grave 0 20 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 12 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 112 20 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 112 20 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 112 20 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 112 20 ;
CC otildedieresis 2 ; PCC o 0 0 ; PCC tilde 112 12 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 56 8 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 151 20 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 20 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 20 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 131 20 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 144 20 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 124 20 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 8 ;
EndComposites
EndFontMetrics
#Author: Cameron Davidson-Pilon, replicated styles from FiveThirtyEight.com
# See https://www.dataorigami.net/blogs/fivethirtyeight-mpl

text.usetex: true

lines.linewidth: 4
lines.solid_capstyle: butt

legend.fancybox: true

axes.prop_cycle: cycler('color', ['30a2da', 'fc4f30', 'e5ae38', '6d904f', '8b8b8b'])
axes.facecolor: f0f0f0
axes.labelsize: large
axes.axisbelow: true
axes.grid: true
axes.edgecolor: f0f0f0
axes.linewidth: 3.0
axes.titlesize: x-large

patch.edgecolor: f0f0f0
patch.linewidth: 0.5

svg.fonttype: path

grid.linestyle: -
grid.linewidth: 1.0
grid.color: cbcbcb

xtick.major.size: 0
xtick.minor.size: 0
ytick.major.size: 0
ytick.minor.size: 0

font.size: 14.0

savefig.edgecolor: f0f0f0
savefig.facecolor: f0f0f0

figure.subplot.left: 0.08
figure.subplot.right: 0.95
figure.subplot.bottom: 0.07
figure.facecolor: f0f0f0

#Author: Cameron Davidson-Pilon, original styles from Bayesian Methods for Hackers
# https://github.com/CamDavidsonPilon/Probabilistic-Programming-and-Bayesian-Methods-for-Hackers/

text.usetex: true

text.width: 0.8

lines.linewidth: 2.0

patch.linewidth: 0.5
patch.facecolor: blue
patch.edgecolor: eeeeee
patch.antialiased: True

text.hinting_factor : 8

mathtext.fontset : cm

axes.facecolor: eeeeee
axes.edgecolor: bcbcbc
axes.grid : True
axes.titlesize: x-large
axes.labelsize: large

legend.fancybox: True

BaKoMa Fonts Licence
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This licence covers two font packs (known as BaKoMa Fonts Colelction, which is available at `CTAN:fonts/cm/ps-type1/bakoma/`):

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   Computer Modern Fonts in PostScript Type 1 and TrueType font formats.

2) BaKoMa-AMS (1.2/19-Jan-95)
   AMS TeX fonts in PostScript Type 1 and TrueType font formats.

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!o6<
#tp[G]*evcf]XTMEKW_b`cd^OB?GR|hmևVHHJMPTSOONQUYSC3(%

-9DMY_\V\djihjmdYTRNR[b^WZ+jJ?|3u@+!/72!-
Cq[Y]<
#CnB2CyB!
)A.75nr/Ro=IYXTVNA@KKcglf\KKOT_hi^NA@CGOORTQ][S1:+% $0?NU\_];`egjjilj_TQSW[adbZgF
&c3u=('%H+7hZE2
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8)Jd.+ovH/b/w8zsTQXWRJBDR_aeqsiYLN\cfXHFCACHMSVQNV[^WM@/$

&5ES\_beiliggjeYPTXZ\_fh[v_]=+
/y/O*2j]ILr<X@H[HRNN
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Fs+R?CnrD\Lb=:w@:yfh=g&en=eqHR]\YOJPUW`nyxeSJGBGQTSSNENBGNYWV^c'UK=2*

"0AR_b`ahjllmka\[\SRY[YY\^ZZY'BUJ%R*U5]$S05
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<i5#F48Z^&?
{5'e1Bt]+u\9\JIVWRQONPU\jomeXMCACJNPPOKFGHP\]_gaYMD8,"

*J[ge]\chjkje\VTUQRWX\[av^V^GORk`Qq>BYh>,\&DL'+aMu=V05=K
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!!!'2ARbgagy\hqj\_ZROPNKPVTV`eXlcH[-\uRnG.%8k=% .PS]16
-k>\X##&>h\m,

.e[
]C]NdEuGJPIFIMOLKTXXSROGBDKJOTUOGJNYaa\WXUNGA3(}

$9DVab\Ybcome^\XPKLJKNRQR\d^\laup\{0X.#-jITq74*pE#*U%?&OQ):
A.^"li^71ILb\QHNNHIOODGMRLORNFCFFKOYXLMZ\_\IZVTRNLKE?2%
#07NZaa\hqsnsc^\[RGFLJHLRVchge"=RXV9Sk7$sd@`BEe93O*
;+U<Qf1
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xE.N.%_zA$.@>0  
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Wl2?:y3JHL.wr-8p~23MyzQ@@Jac"b y&@1q=sz-X].*
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$1
mWNXp~$OMVY[w]&@Vgtvqy[wmlvG
J?3+..249>57=?:80ztIacccbcfihdgv{ww~~[s\ml[\vsmf\ND<=A==EYnxq{yumhkzyrv@xZN#:.

#F3=[xslGIOs8742001010..-3520147308;@M\w0\zkln[m{rpyos{xxr34G(1123\1.1.1)S!"&%#5<<4)"% !*%
'Ne-..Zso?Bp&pm7
\@[D555ug166<\u-Y-=&\pa\]izxiR@81+-%:5:924:.?"6
(6Oroutne[\x]cjmor{}ux\ytqw[X]@\rWIEB?=:>>BFYaehmi^QEDPhE#uyvosE?2#

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+X"**#S
i.s<5No%?S\_ehc[DhK;24.%

0968:.43+.3Kymhgkt{r_QO[kwyuzvzspqtx~->z]iZ[\ZVJ<?:>.6:FGJJB=BCADKf<k\XK\Qc,

;QkEVsma4P35657523325350.+/31233111588?W^cdl[QQenttrplkmhir{~Zdi"./55//1220-)"!'..0/-)S&S&%Bf
1Tir^AFcjYOS_;+ri$#<fY
_J%?z)\#_MC4/)!6789:3.!
\tnmnf\rmaTYn{~})i\r[=uljmr\|w?u^TQVSOFAAHNEA<uCBFBHACIHFGO\S\Zc[BEa\L$4HG7^idi=mW=3430/04470--121./1--
46435bE(YeaVP[egpywlehg'coz!..54.2520/,(+"**+0.2.)"LSDpkI^nJOM=DG)])
-J\90Ql8
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Open Source Used In Secure Workload 3.6.1.1 11542
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Open Source Used In Secure Workload 3.6.1.1

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Open Source Used In Secure Workload 3.6.1.1 11590
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```
#!/usr/bin/env fontforge
i=1
```

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while ( i<$argc )
    Open($argv[i])
    Generate($argv[i]:r + ".ttf")
    i = i+1
endloop

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-----------------------------------------------------------
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24 May 2010

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IsFixedPitch false
Version 1.00B
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
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Descender -194.444
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1.808 decorator 3.4.0

1.808.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.py

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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error"
    for line in open(fname):
        if line.startswith('__version__ '):
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if '__name__' == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='BSD License',
          package_dir = {'': 'src'},
          py_modules = ['decorator'],
Decorator module
=================

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

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

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/
Testing
--------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions $\geq$ 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
-------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_
- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository
----------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:
http://code.google.com/p/micheles/source/browse/#hg\%2Fdecorator

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt

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

Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

Installation

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

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http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator
Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Utilities

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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.egg-info/PKG-INFO
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/PKG-INFO
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Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation.py
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation3.py

1.809 cpio 2.10 11.el6_3
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1.811 urllib3 1.26.4

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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers
* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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* georgemarshall <https://github.com/georgemarshall>
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* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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  * Design review, bugfixes, test coverage.

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

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  * Support for explicitly closing pooled connections

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Add missing WrappedSocket.fileno method in PyOpenSSL

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  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

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  * Account retries on proxy errors

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  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

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  * source_address support and tests (with https://github.com/bui)
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* PEP8 Compliance and Linting
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* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

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

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* Security Warning Documentation update for proper capture

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* Support for using ConnectionPool and PoolManager as context managers.

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

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* Implemented generator for getting chunks from chunked responses.

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* Respect the warning preferences at import.

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* IPv6 bugfixes in testsuite

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  * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
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  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

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

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

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

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

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

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

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

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

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

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

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

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  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

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

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  * Add counter for status_forcelist retries.

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  * Bugfix to pyopenssl vending

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  * Logging improvements to include the HTTP(S) port when opening a new connection

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* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
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  * Minor fixes in the test suite

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  * Add Python 2.6 support to `contrib.securetransport`

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide `urlib2.urlopen().geturl()` behavior
* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

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

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

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

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

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

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

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

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

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

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

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

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

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable ```SSLKEYLOGFILE``` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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* @version 3.0 (December 2000)
* Optimised ANSI C code for the Rijndael cipher (now AES)
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif
#endif
#endif

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

typedef unsigned int nfds_t;
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLIHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNDNNORM
#define POLLWRNORM POLLPRI
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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

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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w))/* convert union wait to int */
#define WIFEXITED(w)!(_W_INT(w) & 0377))
#define WIFSTOPPED(w)(_W_INT(w) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w)
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

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

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 */
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)((int*)&(w))/* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
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/* Prototype */
pid_t waitpid(int, int *, int);
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#endif /* _BSD_WAITPID_H */

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

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#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#if 0
    /* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

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

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+ .Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
 @@ -38,6 +38,7 @@
 to be applied to newly-created files and directories, instead of the
 user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
/* Version of client */
static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,10 @@ process_open(u_int32_t id)
Attrib a;
    char *name;
    int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;

    if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
        (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
        debug3("request %u: open flags %d", id, pflags);
        flags = flags_from_portable(pflags);
        mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+        mode = permforcemode;
+        old_umask = umask(0); /* so umask does not interfere */
+    }
    logit("open "%s" flags %s mode 0%o",
        name, string_from_portable(pflags), mode);
    if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
    }
    }
+if (permforce == 1)
+{
(void) umask(old_umask); /* restore umask to something sane */
    if (status != SSH2_FX_OK)
        send_status(id, status);
    free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
 fprintf(stderr,
     "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
     
-    
+    I log_level] [utf-P blacklisted_requests] 
     [-p whitelisted_requests] [-u umask]\n"
     
-    
+    [-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
     "
     %s -Q protocol_feature]\n",
     __progname, __prognname);
 exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
 pw = pwcopy(user_pw);

 while (!skipargs && (ch = getopt(argc, argv,
     switch (ch) {
     case 'Q':
         if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
             fatal("Invalid umask \"%s\"", optarg);
         (void)umask((mode_t)mask);
     break;
+    case 'm':
+        /* Force permissions on file received via sftp */
+        permforce = 1;
+        permforcemode = strtol(optarg, &cp, 8);
+        if (permforcemode < 0 || permforcemode > 0777 ||
+            *cp != '0' || (permforcemode == 0 &&
+                errno != 0))
+            fatal("Invalid file mode \"%s\"", optarg);
+        break;
     case 'h':
         default:
         sftp_server_usage();

1.813 util-linux 2.22.0

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NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M

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1.814 postgresql 9.2.24-7.el7_9

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1.815 python-setuptools 56.0.0

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1.816 python-argparse 1.2.1-3.rhel6

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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*******************

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History of the software
========================

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

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

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

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

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Mersenne Twister
----------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
http://www.ietf.org/rfc/rfc1321.txt
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
   references to Ghostscript; clarified derivation from RFC 1321;
   now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
   added conditionalization for C++ compilation from Martin
   Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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b) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.833 scala-reflect 2.11.12

1.833.1 Available under license:
No license file was found, but licenses were detected in source scan.

/** The entry point into Scala runtime reflection.
 *
 * To use Scala runtime reflection, simply use or import `scala.reflect.runtime.universe._`
 *
 * See [[scala.reflect.api.Universe]] or the
 * for more details.
 */

Found in path(s):
* /opt/cola/permits/1135959082_1613641379.79/0/scala-reflect-2-11-12-sources-4-jar/scala/reflect/runtime/package.scala

1.834 mini-mime 1.1.0

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1.835 alsa 1.1.6-2.el7

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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1.837 functools32 3.2.3.post2

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Metadata-Version: 2.0
Name: functools32
Version: 3.2.3.post2
Summary: Backport of the functools module from Python 3.2.3 for use on 2.7 and PyPy.
Home-page: https://github.com/MiCHiLU/python-functools32
Author: ENDOH takanao
Author-email: djmchl@gmail.com
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This is a backport of the functools standard library module from
Python 3.2.3 for use on Python 2.7 and PyPy. It includes
new features `lru_cache` (Least-recently-used cache decorator).

Found in path(s):
* /opt/cola/permits/1119804716_1609795449.28/0/functools32-3.2.3.post2-dist-info-
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1.838 consul 0.7.5

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1.840 strscan 1.0.3

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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/grpc-core-1-15-1-sources-jar/io/grpc/internal/ClientCallImpl.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/HandlerRegistry.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ClientStreamListener.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/ServerCallHandler.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/Metadata.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ServerListener.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ServiceConfigInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ForwardingBuffer.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/InternalManagedChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/PartialForwardingBuffer.java
* /opt/ws_local/PERMITS_SQL/1052991466_1592022098.2/0/grpc-core-1-15-1-sources-jar/io/grpc/internal/ServiceConfigInterceptor.java
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jar/io/grpc/internal/JsonParser.java
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jar/io/grpc/ManagedChannel.java
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (a, b) => ... }`
val x: ((Int, Int) => Int) = (((a, b)) => a)

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple3,
   or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

three errors found
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1.859 curl 7.19.7-54.el6_10

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1.860 bind 9.11.4-26.P2.el7_9.3

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.864 ansible 1.9.6
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1.865 click 8.0.3
1.865.1 Available under license:
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[metadata]
name = click
version = attr: click.__version__
url = https://palletsprojects.com/p/click/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://click.palletsprojects.com/
  Changes = https://click.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/click/
  Issue Tracker = https://github.com/pallets/click/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Composable command line interface toolkit
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python

[options]
packages = find:
    package_dir = = src
    include_package_data = true
    python_requires = >= 3.6

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings = error

[coverage:run]
branch = true
source =
    click
tests

[coverage:paths]
source =
    click
    */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
    E203
    E501
    E722
    W503
max-line-length = 80
per-file-ignores =
    src/click/__init__.py: F401

[mypy]
files = src/click
python_version = 3.6
Disallow subclassing any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
check_untyped_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-colorama.*]
ignore_missing_imports = True

[mypy-importlib_metadata.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/setup.cfg
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Metadata-Version: 2.1
Name: click
Version: 8.0.3
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Changes, https://click.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
---------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U click


A Simple Example
----------------

.. code-block:: python

    import click
    
    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name", help="The person to greet.")
    def hello(count, name):
        """Simple program that greets NAME for a total of COUNT times.""
        for _ in range(count):
            click.echo(f"Hello, {name}!")
if __name__ == '__main__':
    hello()

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!
    Hello, Click!

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------

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

- Documentation: https://click.palletsprojects.com/
- Changes: https://click.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/click/
- Source Code: https://github.com/pallets/click
- Issue Tracker: https://github.com/pallets/click/issues
- Website: https://palletsprojects.com/p/click
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- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/src/click.egg-info/PKG-INFO
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/PKG-INFO

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.. _contrib:

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

click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in Click’s bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
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* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/tests/test_formatting.py

1.866 commons-logging 1.2
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/package.html
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/package.html
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/ cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
1.867 scipy 0.17.1

1.867.1 Available under license:

files split from toms/big644 on 1 Dec 1987 (already public)

------m dongarra Fri Jun 21 17:58:49 EDT 1991
Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years. The amos collection is causing me trouble because it defines a function zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the "-l" prefix from amos in /netlib/admin/LIBS.
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This version obtained on 1 Jun 84 from (kahaner@nbs-sdc)
David K. Kahaner
Scientific Computing Division
National Bureau of Standards
Washington DC 20234

WARNING: the calling sequences here differ from those in the book:
R. Piessens, E. deDoncker-Kapenga, C. Uberhuber, D. Kahaner
Quadpack: a Subroutine Package for Automatic Integration
Springer Verlag, 1983. Series in Computational Mathematics v.1
Qhull, Copyright (c) 1993-2012

C.B. Barber
Arlington, MA

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-------------------------------------------------------------------------
Todd Veldhuizen <tveldhui AT gmail DOT com> Tue, Mar 25, 2008 at 11:55 AM
To: Jarrod Millman <millman AT berkeley DOT edu>
Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen <tveldhui AT acm DOT org>

I have no objections to releasing it under a BSD license.

best
Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:
> Julian and Todd,
I'm writing to see if we can get an exception to the Blitz license so that it can be released with a BSD license within SciPy. Currently, the Fedora project is classifying the entire SciPy package as GPLed because one package, scipy.weave, uses blitz. (the rest of the code is all BSD). We were about to launch into the re-factoring step to make the blitz portion optional, when it occurred to us to just ask you guys first. :-)

Blitz is included in the scipy.weave package which allows you to inline C/C++ within Python. Users have the option of converting NumPy arrays to blitz arrays for use in C++. There is also a function (weave.blitz) that will automatically convert NumPy expressions in Python to Blitz expressions in C++. Often this shows notable speed improvements. Our re-factoring step will require us to split the blitz code into the blitz and non-blitz portions. This is a bit of a pain, and ends up with more installation issues than if we didn't do it.

Thanks for your consideration,

--
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1.872 bash 4.2.46 19.el7

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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

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

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

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

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

} Chet Ramey

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

} Chet Ramey, Case Western Reserve University
} Internet: chet@po.CWRU.Edu
} -- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

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

It should serve as a pretty good example of how to get carried away. :-)

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Return-Path: mikel@ora.com
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From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400
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include/wintsdint.h is included only for Windows Client support, as follows:

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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Thông báo và sử dụng của mã nguồn được thực hiện theo các điều kiện sau:

1. Các phân phối mã nguồn nguồn gốc phải giữ nguyên thông báo bản quyền, danh sách điều kiện và thông báo giải thích.
2. Các phân phối mã nguồn binary phải tái tạo thông báo bản quyền, danh sách điều kiện và thông báo giải thích trong tài liệu hoặc các tài liệu khác mà được cung cấp cùng với phân phối.
3. Tên của tác giả có thể được sử dụng để quảng bá hoặc hỗ trợ sản phẩm phát triển từ mã nguồn này mà không cần sự cho phép trước.

Ban đầu, mã nguồn này được phân phối "theo就是这样" và mọi cam kết hoặc cam kết đầy đủ hoặc ngụ ý khác, bao gồm, nhưng không giới hạn, cam kết về tính thương mại và khả năng dùng cho một mục đích cụ thể đều bị loại bỏ. Ở bất kỳ sự kiện nào, tác giả sẽ không phải chịu trách nhiệm về bất kì thiệt hại trực tiếp, gián tiếp, tai nạn, đặc biệt, tốt nghiệp, hoặc hậu quả, bao gồm, nhưng không giới hạn, việc mua lại của hàng hóa thay thế, mất mát của sử dụng, dữ liệu, hoặc lợi nhuận; hoặc sự gián đoạn do kinh doanh gây ra do bất kỳ lý thuyết nào về trách nhiệm, bằng cách nào đó (bất kể nguyên tắc), phát sinh từ việc sử dụng của mã nguồn này, kể cả nếu đã được thông báo về khả năng của những thiệt hại như thế này.
1.875 zlib 1.2.7

1.875.1 Available under license:

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1.876 json-iterator-go 1.1.10

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1.878 python-dateutil 1.5
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope
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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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1.883 gmp 4.3.1 7.el6_2.2
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THE GNU MP LIBRARY

GNU MP is a library for arbitrary precision arithmetic, operating on signed integers, rational numbers, and floating point numbers. It has a rich set of functions, and the functions have a regular interface.

GNU MP is designed to be as fast as possible, both for small operands and huge operands. The speed is achieved by using fullwords as the basic arithmetic type, by using fast algorithms, with carefully optimized assembly code for the most common inner loops for lots of CPUs, and by a general emphasis on speed (instead of simplicity or elegance).

GNU MP is believed to be faster than any other similar library. Its advantage increases with operand sizes for certain operations, since GNU MP in many cases has asymptotically faster algorithms.

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OVERVIEW OF GNU MP

There are five classes of functions in GNU MP.

1. Signed integer arithmetic functions (mpz). These functions are intended to be easy to use, with their regular interface. The associated type is 'mpz_t'.

2. Rational arithmetic functions (mpq). For now, just a small set of functions necessary for basic rational arithmetics. The associated type
is ‘mpq_t’.

3. Floating-point arithmetic functions (mpf). If the C type ‘double’
doesn’t give enough precision for your application, declare your
variables as ‘mpf_t’ instead, set the precision to any number desired,
and call the functions in the mpf class for the arithmetic operations.

4. Positive-integer, hard-to-use, very low overhead functions are in the
mpn class. No memory management is performed. The caller must ensure
enough space is available for the results. The set of functions is not
regular, nor is the calling interface. These functions accept input
arguments in the form of pairs consisting of a pointer to the least
significant word, and an integral size telling how many limbs (= words)
the pointer points to.

Almost all calculations, in the entire package, are made by calling these
low-level functions.

5. Berkeley MP compatible functions.

To use these functions, include the file "mp.h". You can test if you are
using the GNU version by testing if the symbol __GNU_MP__ is defined.

For more information on how to use GNU MP, please refer to the documentation.
It is composed from the file doc/gmp.texi, and can be displayed on the screen
or printed. How to do that, as well how to build the library, is described in
the INSTALL file in this directory.

REPORTING BUGS

If you find a bug in the library, please make sure to tell us about it!

You should first check the GNU MP web pages at http://gmplib.org/, under
"Status of the current release". There will be patches for all known serious
bugs there.

Report bugs to gmp-bugs@gmplib.org. What information is needed in a useful bug
report is described in the manual. The same address can be used for suggesting
modifications and enhancements.
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Version 3, 29 June 2007

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1.886 jetty-security 9.2.6.v20141205

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kpropllog/kpropllog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
```
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
and the initial implementation of incremental propagation, including the following new or changed files:

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

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1.905 httpcomponents-httpclient 4.2.5

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* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-jar/org/apache/hadoop/mapreduce/input/CombineFileSplit.java
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* /opt/cola/permits/1137306368_1614052243.54/0/hadoop-mapreduce-client-core-2-2-0-sources-1-
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org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier$Renewer

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org.apache.hadoop.mapreduce.security.token.delegation.DelegationTokenIdentifier
org.apache.hadoop.mapreduce.security.token.JobTokenIdentifier

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1.910 goprotobuf 1.4.3

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 */

package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.*;
import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

/**
 * Store permission related information.
 * 
 * @InterfaceAudience.LimitedPrivate(\"HDFS\", \"MapReduce\")
 * @InterfaceStability.Unstable
 */
public class PermissionStatus implements Writable {
    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new PermissionStatus(); }
    };
    static { // register a ctor
        WritableFactories.setFactory(PermissionStatus.class, FACTORY);
    }

    /** Create an immutable [PermissionStatus] object. */
    public static PermissionStatus createImmutable(
        String user, String group, FsPermission permission) {
        // Code implementation
    }
}
return new PermissionStatus(user, group, permission) {
    @Override
    public PermissionStatus applyUMask(FsPermission umask) {
        throw new UnsupportedOperationException();
    }
    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
};

private String username;
private String groupname;
private FsPermission permission;

private PermissionStatus() {}

/** Constructor */
public PermissionStatus(String user, String group, FsPermission permission) {
    username = user;
    groupname = group;
    this.permission = permission;
}

/** Return user name */
public String getUserName() { return username; }

/** Return group name */
public String getGroupName() { return groupname; }

/** Return permission */
public FsPermission getPermission() { return permission; }

/**
 * Apply umask.
 * @see FsPermission#applyUMask(FsPermission)
 */
public PermissionStatus applyUMask(FsPermission umask) {
    permission = permission.applyUMask(umask);
    return this;
}

@Override
public void readFields(DataInput in) throws IOException {
    username = Text.readString(in, Text.DEFAULT_MAX_LEN);
    groupname = Text.readString(in, Text.DEFAULT_MAX_LEN);
    permission = FsPermission.read(in);
}
@Override
public void write(DataOutput out) throws IOException {
    write(out, username, groupname, permission);
}

/**
 * Create and initialize a PermissionStatus from DataInput.
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a PermissionStatus from its base components.
 */
public static void write(DataOutput out,
    String username,
    String groupname,
    FsPermission permission) throws IOException {
    Text.writeString(out, username, Text.DEFAULT_MAX_LEN);
    Text.writeString(out, groupname, Text.DEFAULT_MAX_LEN);
    permission.write(out);
}

@Override
public String toString() {
    return username + ":" + groupname + ":" + permission;
}

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package org.apache.hadoop.fs.permission;

import java.io.IOException;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * An exception class for access control related issues.
 * @deprecated Use {@link org.apache.hadoop.security.AccessControlException}
 *             instead.
 */
@Deprecated
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AccessControlException extends IOException {
    //Required by {@link java.io.Serializable}.
    private static final long serialVersionUID = 1L;

    /**
     * Default constructor is needed for unwrapping from
     * {@link org.apache.hadoop.ipc.RemoteException}.
     */
    public AccessControlException() {
        super("Permission denied.");
    }

    /**
     * Constructs an {@link AccessControlException}
     * with the specified detail message.
     * @param s the detail message.
     */
    public AccessControlException(String s) {
        super(s);
    }

    /**
     * Constructs a new exception with the specified cause and a detail
     * message of <tt>(cause==null ? null : cause.toString())</tt> (which
     * typically contains the class and detail message of <tt>cause</tt>),
     * @param cause the cause (which is saved for later retrieval by the
     *               { @link #getCause()} method).  (A <tt>null</tt> value is
     *               permitted, and indicates that the cause is nonexistent or
     *               unknown.)
     */
    public AccessControlException(Throwable cause) {
    }
super(cause);
}
}
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 */
package org.apache.hadoop.fs.permission;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeys;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.WritableFactories;
import org.apache.hadoop.io.WritableFactory;

/**
 * A class for file/directory permissions.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class FsPermission implements Writable {
private static final Log LOG = LogFactory.getLog(FsPermission.class);

static final WritableFactory FACTORY = new WritableFactory() {
    @Override
    public Writable newInstance() { return new FsPermission(); }
};
static { // register a ctor
    WritableFactories.setFactory(FsPermission.class, FACTORY);
    WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
}

/** Create an immutable {link FsPermission} object. */
public static FsPermission createImmutable(short permission) {
    return new ImmutableFsPermission(permission);
}

//POSIX permission style
private FsAction useraction = null;
private FsAction groupaction = null;
private FsAction otheraction = null;
private boolean stickyBit = false;

private FsPermission() {}

/**
 * Construct by the given {link FsAction}.
 * @param u user action
 * @param g group action
 * @param o other action
 */
public FsPermission(FsAction u, FsAction g, FsAction o) {
    this(u, g, o, false);
}

public FsPermission(FsAction u, FsAction g, FsAction o, boolean sb) {
    set(u, g, o, sb);
}

/**
 * Construct by the given mode.
 * @param mode
 * @see #toShort()
 */
public FsPermission(short mode) { fromShort(mode); }

/**
 * Copy constructor
 * @param other other permission
 */
public FsPermission(FsPermission other) {
    this.useraction = other.useraction;
    this.groupaction = other.groupaction;
    this.otheraction = other.otheraction;
}
this.stickyBit = other.stickyBit;
}

/**
 * Construct by given mode, either in octal or symbolic format.
 * @param mode mode as a string, either in octal or symbolic format
 * @throws IllegalArgumentException if <code>mode</code> is invalid
 */
public FsPermission(String mode) {
    this(new UmaskParser(mode).getUMask());
}

/** Return user {@link FsAction}. */
public FsAction getUserAction() {return useraction;

/** Return group [@link FsAction]. */
public FsAction getGroupAction() {return groupaction;

/** Return other [@link FsAction]. */
public FsAction getOtherAction() {return otheraction;

private void set(FsAction u, FsAction g, FsAction o, boolean sb) {
    useraction = u;
    groupaction = g;
    otheraction = o;
    stickyBit = sb;
}

public void fromShort(short n) {
    FsAction[] v = FsAction.values();

    set(v[(n >>> 6) & 7], v[(n >>> 3) & 7], v[n & 7], (((n >>> 9) & 1) == 1));
}

@Override
public void write(DataOutput out) throws IOException {
    out.writeShort(toShort());
}

@Override
public void readFields(DataInput in) throws IOException {
    fromShort(in.readShort());
}

/**
 * Create and initialize a [@link FsPermission] from [@link DataInput].
 */
public static FsPermission read(DataInput in) throws IOException {

FsPermission p = new FsPermission();
p.readFields(in);
return p;
}

/**
 * Encode the object to a short.
 */
public short toShort() {
    int s = (stickyBit ? 1 << 9 : 0) |
            (useraction.ordinal() << 6) |
            (groupaction.ordinal() << 3) |
            otheraction.ordinal();

    return (short)s;
}

@Override
public boolean equals(Object obj) {
    if (obj instanceof FsPermission) {
        FsPermission that = (FsPermission)obj;
        return this.useraction == that.useraction
                && this.groupaction == that.groupaction
                && this.otheraction == that.otheraction
                && this.stickyBit == that.stickyBit;
    }
    return false;
}

@Override
public int hashCode() {return toShort();}

@Override
public String toString() {
    String str = useraction.SYMBOL + groupaction.SYMBOL + otheraction.SYMBOL;
    if(stickyBit) {
        StringBuilder str2 = new StringBuilder(str);
        str2.replace(str2.length() - 1, str2.length(),
                otheraction.implies(FsAction.EXECUTE) ? "t" : "T");
        str = str2.toString();
    }

    return str;
}

/**
 * Apply a umask to this permission and return a new one.
 */
The umask is used by create, mkdir, and other Hadoop filesystem operations. The mode argument for these operations is modified by removing the bits which are set in the umask. Thus, the umask limits the permissions which newly created files and directories get.

@param umask The umask to use

@return The effective permission

/**
 * @return The effective permission
 */
public FsPermission applyUMask(FsPermission umask) {
    return new FsPermission(useraction.and(umask.useraction.not()),
                           groupaction.and(umask.groupaction.not()),
                           otheraction.and(umask.otheraction.not()));
}

/** umask property label deprecated key and code in getUMask method
 * to accommodate it may be removed in version .23 */
public static final String DEPRECATED_UMASK_LABEL = "dfs.umask";
public static final String UMASK_LABEL = CommonConfigurationKeys.FS_PERMISSIONS_UMASK_KEY;
public static final int DEFAULT_UMASK = CommonConfigurationKeys.FS_PERMISSIONS_UMASK_DEFAULT;

/**
 * Get the user file creation mask (umask)
 *
 * { @code UMASK_LABEL} config param has umask value that is either symbolic
 * or octal.
 *
 * Symbolic umask is applied relative to file mode creation mask;
 * the permission op characters `+` clears the corresponding bit in the mask,
 * `-` sets bits in the mask.
 *
 * Octal umask, the specified bits are set in the file mode creation mask.
 *
 * { @code DEPRECATED_UMASK_LABEL} config param has umask value set to decimal.
 */
public static FsPermission getUMask(Configuration conf) {
    int umask = DEFAULT_UMASK;

    // To ensure backward compatibility first use the deprecated key.
    // If the deprecated key is not present then check for the new key
    if(conf != null) {
        String confUmask = conf.get(UMASK_LABEL);
        int oldUmask = conf.getInt(DEPRECATED_UMASK_LABEL, Integer.MIN_VALUE);
        try {
            if(confUmask != null) {
                umask = new UmaskParser(confUmask).getUMask();
            }
            confUmask = conf.get(DEPRECATED_UMASK_LABEL);
        }
    }
    return new FsPermission(useraction.and(umask.useraction.not()),
                            groupaction.and(umask.groupaction.not()),
                            otheraction.and(umask.otheraction.not()));
}
catch(NullPointerException e) {
    // Provide more explanation for user-facing message
    String type = e instanceof NumberFormatException ? "decimal"
        : "octal or symbolic";
    String error = "Unable to parse configuration " + UMASK_LABEL
        + " with value " + confUmask + " as " + type + " umask."
        ;
    LOG.warn(error);
}

// If oldUmask is not set, then throw the exception
if (oldUmask == Integer.MIN_VALUE) {
    throw new IllegalArgumentException(error);
}

if (oldUmask != Integer.MIN_VALUE) { // Property was set with old key
    if (umask != oldUmask) {
        LOG.warn(DEPRECATED_UMASK_LABEL
            + " configuration key is deprecated. " + "Convert to "
            + UMASK_LABEL + ", using octal or symbolic umask "
            + "specifications."");
        // Old and new umask values do not match - Use old umask
        umask = oldUmask;
    }
}

return new FsPermission((short)umask);

public boolean getStickyBit() {
    return stickyBit;
}

/** Set the user file creation mask (umask) */
public static void setUMask(Configuration conf, FsPermission umask) {
    conf.set(UMASK_LABEL, String.format("%1$03o", umask.toShort()));
    conf.setInt(DEPRECATED_UMASK_LABEL, umask.toShort());
}

/**
 * Get the default permission for directory and symlink.
 * In previous versions, this default permission was also used to
 * create files, so files created end up with ugo+x permission.
 * See HADOOP-9155 for detail.
 * Two new methods are added to solve this, please use
 * { @link FsPermission#getDirDefault()} for directory, and use
 * { @link FsPermission#getFileDefault()} for file.
 */
* This method is kept for compatibility.
 */

public static FsPermission getDefault() {
    return new FsPermission((short)00777);
}

/**
* Get the default permission for directory.
*/

public static FsPermission getDirDefault() {
    return new FsPermission((short)00777);
}

/**
* Get the default permission for file.
*/

public static FsPermission getFileDefault() {
    return new FsPermission((short)00666);
}

/**
* Create a FsPermission from a Unix symbolic permission string
* @param unixSymbolicPermission e.g. "-rw-rw-rw-"
*/

public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    } else if (unixSymbolicPermission.length() != 10) {
        throw new IllegalArgumentException("length != 10(unixSymbolicPermission=
            + unixSymbolicPermission + ")");
    }

    int n = 0;
    for(int i = 1; i < unixSymbolicPermission.length(); i++) {
        n = n << 1;
        char c = unixSymbolicPermission.charAt(i);
        n += (c == '-' || c == 'T' || c == 'S') ? 0: 1;
    }

    // Add sticky bit value if set
    if(unixSymbolicPermission.charAt(9) == 't' ||
       unixSymbolicPermission.charAt(9) == 'T')
        n += 01000;

    return new FsPermission((short)n);
}
private static class ImmutableFsPermission extends FsPermission {
    public ImmutableFsPermission(short permission) {
        super(permission);
    }

    @Override
    public FsPermission applyUMask(FsPermission umask) {
        throw new UnsupportedOperationException();
    }

    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
}

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package org.apache.hadoop.fs.permission;

import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import junit.framework.TestCase;
import static org.apache.hadoop.fs.permission.FsAction.*;

public class TestFsPermission extends TestCase {
    public void testFsAction() {
        // implies
        for (FsAction a : FsAction.values()) {
            assertTrue(ALL.implies(a));
        }
        for (FsAction a : FsAction.values()) {
            assertTrue(a == NONE? NONE.implies(a): !NONE.implies(a));
        }
        for (FsAction a : FsAction.values()) {
            assertTrue(a == READ_EXECUTE || a == READ || a == EXECUTE || a == NONE?
                READ_EXECUTE.implies(a): !READ_EXECUTE.implies(a));
        }
        // masks
        assertEquals(EXECUTE, EXECUTE.and(READ_EXECUTE));
        assertEquals(READ, READ.and(READ_EXECUTE));
        assertEquals(NONE, WRITE.and(READ_EXECUTE));
        assertEquals(READ, READ_EXECUTE.and(READ_WRITE));
        assertEquals(NONE, READ_EXECUTE.and(WRITE));
        assertEquals(WRITE_EXECUTE, ALL.and(WRITE_EXECUTE));
    }

    /**
     * Ensure that when manually specifying permission modes we get
     * the expected values back out for all combinations
     */
    public void testConvertingPermissions() {
        for (short s = 0; s < 01777; s++) {
            assertEquals(s, new FsPermission(s).toShort());
        }
    }
}

//Open Source Used In Secure Workload 3.6.1.1 12615
short s = 0;

for(boolean sb : new boolean [] { false, true }) {
    for(FsAction u : FsAction.values()) {
        for(FsAction g : FsAction.values()) {
            for(FsAction o : FsAction.values()) {
                FsPermission f = new FsPermission(u, g, o, sb);
                assertEquals(s, f.toShort());
                FsPermission f2 = new FsPermission(f);
                assertEquals(s, f2.toShort());
                s++;
            }
        }
    }
}

public void testStickyBitToString() {
    // Check that every permission has its sticky bit represented correctly
    for(boolean sb : new boolean [] { false, true }) {
        for(FsAction u : FsAction.values()) {
            for(FsAction g : FsAction.values()) {
                for(FsAction o : FsAction.values()) {
                    FsPermission f = new FsPermission(u, g, o, sb);
                    if(f.getStickyBit() && f.getOtherAction().implies(EXECUTE))
                        assertEquals('t', f.toString().charAt(8));
                    else if(f.getStickyBit() && !f.getOtherAction().implies(EXECUTE))
                        assertEquals('T', f.toString().charAt(8));
                    else if(!f.getStickyBit() && f.getOtherAction().implies(EXECUTE))
                        assertEquals('x', f.toString().charAt(8));
                    else
                        assertEquals('-', f.toString().charAt(8));
                }
            }
        }
    }
}

public void testFsPermission() {
    String symbolic = "-rwxrwxrwx";
    StringBuilder b = new StringBuilder("-123456789");

    for(int i = 0; i < 1<<9; i++) {
        for(int j = 1; j < 10; j++) {
            b.setCharAt(j, '-');
        }
    }
}
String binary = Integer.toBinaryString(i);

int len = binary.length();
for(int j = 0; j < len; j++) {
    if (binary.charAt(j) == '1') {
        int k = 9 - (len - 1 - j);
        b.setCharAt(k, symbolic.charAt(k));
    }
}

assertEquals(i, FsPermission.valueOf(b.toString()).toShort());
}
}

public void testUMaskParser() throws IOException {
    Configuration conf = new Configuration();

    // Ensure that we get the right octal values back for all legal values
    for(FsAction u : FsAction.values()) {
        for(FsAction g : FsAction.values()) {
            for(FsAction o : FsAction.values()) {
                FsPermission f = new FsPermission(u, g, o);
                String asOctal = String.format("%1$03o", f.toShort());
                conf.set(FsPermission.UMASK_LABEL, asOctal);
                FsPermission fromConf = FsPermission.getUMask(conf);
                assertEquals(f, fromConf);
            }
        }
    }
}

public void testSymbolicUmasks() {
    Configuration conf = new Configuration();

    // Test some symbolic to octal settings
    // Symbolic umask list is generated in linux shell using by the command:
    // umask 0; umask <octal number>; umask -S
    String [][] symbolic = new String [][] {
        {"a+rw", "111"},
        {"u=rwx,g=rwx,o=rwx", "0"},
        {"u=rwx,g=rwx,o=rwx", "1"},
        {"u=rwx,g=rwx,o=rwx", "2"},
        {"u=rwx,g=rwx,o=rwx", "3"},
        {"u=rwx,g=rwx,o=rwx", "4"},
        {"u=rwx,g=rwx,o=rwx", "5"},
        {"u=rwx,g=rwx,o=rwx", "6"},
        {"u=rwx,g=rwx,o=rwx", "7"},
        {"u=rwx,g=rwx,o=rwx", "10"},
    };
}
{"u=rwx,g=,o=rw", "71"},
{"u=rwx,g=,o=rx", "72"},
{"u=rwx,g=,o=r", "73"},
{"u=rwx,g=,o=wx", "74"},
{"u=rwx,g=,o=w", "75"},
{"u=rwx,g=,o=x", "76"},
{"u=rwx,g=,o=", "77"},
{"u=rw,g=rwx,o=rwx", "100"},
{"u=rw,g=rwx,o=rx", "101"},
{"u=rw,g=rwx,o=r", "102"},
{"u=rw,g=rwx,o=wx", "103"},
{"u=rw,g=rwx,o=w", "104"},
{"u=rw,g=rwx,o=x", "105"},
{"u=rw,g=rwx,o=", "106"},
{"u=rw,g=rwx,o="},
{"u=rw,g=rw,o=rwx", "110"},
{"u=rw,g=rw,o=rx", "111"},
{"u=rw,g=rw,o=r", "112"},
{"u=rw,g=rw,o=wx", "113"},
{"u=rw,g=rw,o=w", "114"},
{"u=rw,g=rw,o=x", "115"},
{"u=rw,g=rw,o=", "116"},
{"u=rw,g=rw,o="},
{"u=rw,g=rx,o=rwx", "120"},
{"u=rw,g=rx,o=rx", "121"},
{"u=rw,g=rx,o=r", "122"},
{"u=rw,g=rx,o=wx", "123"},
{"u=rw,g=rx,o=w", "124"},
{"u=rw,g=rx,o=x", "125"},
{"u=rw,g=rx,o=", "126"},
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{"u=ru,g=,o=rwx", "130"},
{"u=ru,g=,o=rx", "131"},
{"u=ru,g=,o=r", "132"},
{"u=ru,g=,o=wx", "133"},
{"u=ru,g=,o=w", "134"},
{"u=ru,g=,o=x", "135"},
{"u=ru,g=,o=", "136"},
{"u=ru,g=,o="},
{"u=ru,g=wy,o=rwx", "140"},
{"u=ru,g=wy,o=rx", "141"},
{"u=ru,g=wy,o=r", "142"},
{"u=ru,g=wy,o=wx", "143"},
{"u=ru,g=wy,o=w", "144"},
{"u=ru,g=wy,o=x", "145"},
{"u=ru,g=wy,o=", "146"},
{"u=ru,g=wy,o="}
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</thead>
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"u=x,g=r,o=x", "636"},
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{"u=g\_w\_o=r","753"},
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{"u=g\_w\_o=w","755"},
{"u=g\_w\_o=x","756"},
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{"u=g\_x\_o=r","771"},
{"u=g\_x\_o=wx","772"},
{"u=g\_x\_o=w","773"},
{"u=g\_x\_o=","774"},
{"u=g\_x\_o=x","775"},
{"u=g\_x\_o=","776"},
{"u=g\_x\_o=","777"}
}

for(int i = 0; i < symbolic.length; i += 2) {
    conf.set(FsPermission.UMASK_LABEL, symbolic[i][0]);
    short val = Short.valueOf(symbolic[i][1], 8);
    assertEquals(val, FsPermission.getUMask(conf).toShort());
}

public void testBadUmasks() {
    Configuration conf = new Configuration();

    for(String b : new String []{"1777", "22", "99", "foo", ""}) {
        conf.set(FsPermission.UMASK_LABEL, b);
        try {
            FsPermission.getUMask(conf);
            fail("Shouldn't have been able to parse bad umask");
        } catch(InvalidArgumentException iae) {
            assertTrue("Exception should specify parsing error and invalid umask: " + iae.getMessage(), isCorrectExceptionMessage(iae.getMessage(), b));
        }
    }
}

private boolean isCorrectExceptionMessage(String msg, String umask) {

return msg.contains("Unable to parse") &&
    msg.contains(umask) &&
    msg.contains("octal or symbolic");
}

// Ensure that when the deprecated decimal umask key is used, it is correctly
// parsed as such and converted correctly to an FsPermission value
public void testDeprecatedUmask() {
    Configuration conf = new Configuration();
    conf.set(FsPermission.DEPRECATED_UMASK_LABEL, "302"); // 302 = 0456
    FsPermission umask = FsPermission.getUMask(conf);

    assertEquals(0456, umask.toShort());
}

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 * limitations under the License.
 */
package org.apache.hadoop.fs.permission;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import static org.junit.Assert.fail;
import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FSDataOutputStream;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hdfs.DFSTestUtil;
import org.apache.hadoop.hdfs.DistributedFileSystem;

import org.apache.hadoop.hadoop.fs.permission;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FSDataOutputStream;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hadoop.hdfs.DFSTestUtil;
import org.apache.hadoop.hadoop.hdfs.DistributedFileSystem;
import org.apache.hadoop.hdfs.HdfsConfiguration;
import org.apache.hadoop.hdfs.MiniDFSCluster;
import org.apache.hadoop.security.AccessControlException;
import org.apache.hadoop.security.UserGroupInformation;
import org.junit.Test;

public class TestStickyBit {

    static UserGroupInformation user1 = 
        UserGroupInformation.createUserForTesting("theDoctor", new String[] {"tardis"});
    static UserGroupInformation user2 = 
        UserGroupInformation.createUserForTesting("rose", new String[] {"powellesstates"});

    /**
     * Ensure that even if a file is in a directory with the sticky bit on,
     * another user can write to that file (assuming correct permissions).
     */
    private void confirmCanAppend(Configuration conf, FileSystem hdfs,
        Path baseDir) throws IOException, InterruptedException {
        // Create a tmp directory with wide-open permissions and sticky bit
        Path p = new Path(baseDir, "tmp");
        hdfs.mkdirs(p);
        hdfs.setPermission(p, new FsPermission((short) 01777));

        // Write a file to the new tmp directory as a regular user
        hdfs = DFSTestUtil.getFileSystemAs(user1, conf);
        Path file = new Path(p, "foo");
        writeFile(hdfs, file);
        hdfs.setPermission(file, new FsPermission((short) 0777));

        // Log onto cluster as another user and attempt to append to file
        hdfs = DFSTestUtil.getFileSystemAs(user2, conf);
        Path file2 = new Path(p, "foo");
        FSDataOutputStream h = hdfs.append(file2);
        h.write("Some more data".getBytes());
        h.close();
    }

    /**
     * Test that one user can't delete another user's file when the sticky bit is
     * set.
     */
    private void confirmDeletingFiles(Configuration conf, FileSystem hdfs,
        Path baseDir) throws IOException, InterruptedException {
        Path p = new Path(baseDir, "contemporary");
        hdfs.mkdirs(p);
        hdfs.setPermission(p, new FsPermission((short) 01777));

        // Write a file to the new tmp directory as a regular user
        hdfs = DFSTestUtil.getFileSystemAs(user1, conf);
        Path file = new Path(p, "foo");
        writeFile(hdfs, file);
        hdfs.setPermission(file, new FsPermission((short) 0777));

        // Log onto cluster as another user and attempt to append to file
        hdfs = DFSTestUtil.getFileSystemAs(user2, conf);
        Path file2 = new Path(p, "foo");
        FSDataOutputStream h = hdfs.append(file2);
        h.write("Some more data".getBytes());
        h.close();
    }
}
// Write a file to the new temp directory as a regular user
hdfs = DFSTestUtil.getFileSystemAs(user1, conf);
Path file = new Path(p, "foo");
writeFile(hdfs, file);

// Make sure the correct user is the owner
assertEquals(user1.getShortUserName(), hdfs.getFileStatus(file).getOwner());

// Log onto cluster as another user and attempt to delete the file
FileSystem hdfs2 = DFSTestUtil.getFileSystemAs(user2, conf);

try {
    hdfs2.delete(file, false);
    fail("Shouldn't be able to delete someone else's file with SB on");
} catch (IOException ioe) {
    assertTrue(ioe instanceof AccessControlException);
    assertTrue(ioe.getMessage().contains("sticky bit"));
}

/**
 * Test that if a directory is created in a directory that has the sticky bit
 * on, the new directory does not automatically get a sticky bit, as is
 * standard Unix behavior
 */
private void confirmStickyBitDoesntPropagate(FileSystem hdfs, Path baseDir)
    throws IOException {
    Path p = new Path(baseDir, "scissorsisters");

    // Turn on its sticky bit
    hdfs.mkdirs(p, new FsPermission((short) 01666));

    // Create a subdirectory within it
    Path p2 = new Path(p, "bar");
    hdfs.mkdirs(p2);

    // Ensure new directory doesn't have its sticky bit on
    assertFalse(hdfs.getFileStatus(p2).getPermission().getStickyBit());
}

/**
 * Test basic ability to get and set sticky bits on files and directories.
 */
private void confirmSettingAndGetting(FileSystem hdfs, Path baseDir)
    throws IOException {
    Path p1 = new Path(baseDir, "rogueTraders");

hdfs.mkdirs(p1);

// Initially sticky bit should not be set
assertFalse(hdfs.getFileStatus(p1).getPermission().getStickyBit());

// Same permission, but with sticky bit on
short withSB;
withSB = (short) (hdfs.getFileStatus(p1).getPermission().toShort() | 01000);
assertTrue((new FsPermission(withSB)).getStickyBit());

hdfs.setPermission(p1, new FsPermission(withSB));
assertTrue(hdfs.getFileStatus(p1).getPermission().getStickyBit());

// Write a file to the fs, try to set its sticky bit
Path f = new Path(baseDir, "somefile");
writeFile(hdfs, f);
assertFalse(hdfs.getFileStatus(f).getPermission().getStickyBit());

withSB = (short) (hdfs.getFileStatus(f).getPermission().toShort() | 01000);

hdfs.setPermission(f, new FsPermission(withSB));
assertTrue(hdfs.getFileStatus(f).getPermission().getStickyBit());

@Test
public void testGeneralSBBehavior() throws IOException, InterruptedException {
  MiniDFSCluster cluster = null;
  try {
    Configuration conf = new HdfsConfiguration();
    conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
    cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).build();
    FileSystem hdfs = cluster.getFileSystem();
    assertTrue(hdfs instanceof DistributedFileSystem);
    Path baseDir = new Path("/mcgann");
    hdfs.mkdirs(baseDir);
    confirmCanAppend(conf, hdfs, baseDir);
    baseDir = new Path("/eccleston");
    hdfs.mkdirs(baseDir);
    confirmSettingAndGetting(hdfs, baseDir);

    baseDir = new Path("/tennant");
    hdfs.mkdirs(baseDir);
  }
}
confirmDeletingFiles(conf, hdfs, baseDir);

baseDir = new Path("/smith");
hdfs.mkdirs(baseDir);
confirmStickyBitDoesntPropagate(hdfs, baseDir);

} finally {
    if (cluster != null)
        cluster.shutdown();
}

/**
 * Test that one user can't rename/move another user's file when the sticky
 * bit is set.
 */
@Test
public void testMovingFiles() throws IOException, InterruptedException {
    MiniDFSCluster cluster = null;

    try {
        // Set up cluster for testing
        Configuration conf = new HdfsConfiguration();
        conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
        cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).build();
        FileSystem hdfs = cluster.getFileSystem();
        assertTrue(hdfs instanceof DistributedFileSystem);

        // Create a tmp directory with wide-open permissions and sticky bit
        Path tmpPath = new Path("/tmp");
        Path tmpPath2 = new Path("/tmp2");
        hdfs.mkdirs(tmpPath);
        hdfs.mkdirs(tmpPath2);
        hdfs.setPermission(tmpPath, new FsPermission((short) 01777));
        hdfs.setPermission(tmpPath2, new FsPermission((short) 01777));

        // Write a file to the new tmp directory as a regular user
        Path file = new Path(tmpPath, "foo");
        FileSystem hdfs2 = DFSTestUtil.getFileSystemAs(user1, conf);
        writeFile(hdfs2, file);

        // Log onto cluster as another user and attempt to move the file
        FileSystem hdfs3 = DFSTestUtil.getFileSystemAs(user2, conf);
        try {
            // Log onto cluster as another user and attempt to move the file
        }
    } finally {
        if (cluster != null)
            cluster.shutdown();
    }
}
hdfs3.rename(file, new Path(tmpPath2, "renamed"));
fail("Shouldn't be able to rename someone else's file with SB on");
} catch (IOException ioe) {
    assertTrue(ioe instanceof AccessControlException);
    assertTrue(ioe.getMessage().contains("sticky bit");
}
} finally {
    if (cluster != null)
        cluster.shutdown();
}

/**
 * Ensure that when we set a sticky bit and shut down the file system, we get
 * the sticky bit back on re-start, and that no extra sticky bits appear after
 * re-start.
 * /
 @Test
public void testStickyBitPersistence() throws IOException {
    MiniDFSCluster cluster = null;
    try {
        Configuration conf = new HdfsConfiguration();
        conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
        cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).build();
        FileSystem hdfs = cluster.getFileSystem();
        assertTrue(hdfs instanceof DistributedFileSystem);

        // A tale of three directories...
        Path sbSet = new Path("/Housemartins");
        Path sbNotSpecified = new Path("/INXS");
        Path sbSetOff = new Path("/Easyworld");

        for (Path p : new Path[] { sbSet, sbNotSpecified, sbSetOff })
            hdfs.mkdirs(p);

        // Two directories had there sticky bits set explicitly...
        hdfs.setPermission(sbSet, new FsPermission((short) 01777));
        hdfs.setPermission(sbSetOff, new FsPermission((short) 00777));

        cluster.shutdown();

        // Start file system up again
        hdfs = cluster.getFileSystem();

        assertTrue(hdfs.exists(sbSet));
        assertTrue(hdfs.getFileStatus(sbSet).getPermission().getStickyBit());
assertTrue(hdfs.exists(sbNotSpecified));
assertFalse(hdfs.getFileStatus(sbNotSpecified).getPermission().getStickyBit());

assertTrue(hdfs.exists(sbSetOff));
assertFalse(hdfs.getFileStatus(sbSetOff).getPermission().getStickyBit());
}

} finally {
    if (cluster != null)
        cluster.shutdown();
}

/**
 * Write a quick file to the specified file system at specified path
 */
static private void writeFile(FileSystem hdfs, Path p) throws IOException {
    FSDataOutputStream o = hdfs.create(p);
    o.write("some file contents").getBytes());
    o.close();
}

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*/
package org.apache.hadoop.fs.permission;
import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
/**
* Parse umask value provided as a string, either in octal or symbolic
* format and return it as a short value. Umask values are slightly
* different from standard modes as they cannot specify sticky bit
* or X.
*
*/
@InterfaceAudience.Private
@InterfaceStability.Unstable
class UmaskParser extends PermissionParser {
private static Pattern chmodOctalPattern =
Pattern.compile("^\\s*[+]?()([0-7]{3})\\s*$"); // no leading 1 for sticky bit
private static Pattern umaskSymbolicPattern = /* not allow X or t */
Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwx]*)([,\\s]*)\\s*");
final short umaskMode;

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public UmaskParser(String modeStr) throws IllegalArgumentException {
    super(modeStr, umaskSymbolicPattern, chmodOctalPattern);

    umaskMode = (short)combineModes(0, false);
}

/**
 * To be used for file/directory creation only. Symbolic umask is applied
 * relative to file mode creation mask; the permission op characters '+'
 * results in clearing the corresponding bit in the mask, '-' results in bits
 * for indicated permission to be set in the mask.
 *
 * For octal umask, the specified bits are set in the file mode creation mask.
 *
 * @return umask
 */
public short getUMask() {
    if (symbolic) {
        // Return the complement of octal equivalent of umask that was computed
        return (short)(~umaskMode & 0777);
    }
    return umaskMode;
}

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 */
package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * File system actions, e.g. read, write, etc.
 */
public enum FsAction {
    // POSIX style
    NONE("---"),
    EXECUTE("--x"),
    WRITE("-w-"),
    WRITE_EXECUTE("-wx"),
    READ("r--"),
    READ_EXECUTE("r-x"),
    READ_WRITE("rw-"),
    ALL("rwx");

    /** Retain reference to value array. */
    private final static FsAction[] vals = values();

    /** Symbolic representation */
    public final String SYMBOL;

    private FsAction(String s) {
        SYMBOL = s;
    }

    /**
     * Return true if this action implies that action.
     * @param that
     */
    public boolean implies(FsAction that) {
        if (that != null) {
            return (ordinal() & that.ordinal()) == that.ordinal();
        }
        return false;
    }

    /** AND operation. */
    public FsAction and(FsAction that) {
        return vals[ordinal() & that.ordinal()];
    }

    /** OR operation. */
    public FsAction or(FsAction that) {
        return vals[ordinal() | that.ordinal()];
    }

    /** NOT operation. */
    public FsAction not() {
        return vals[7 - ordinal()];
    }
}
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package org.apache.hadoop.fs.permission;
import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.FileStatus;
/**
* Parse a permission mode passed in from a chmod command and apply that
* mode against an existing file.
*/
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class ChmodParser extends PermissionParser {
private static Pattern chmodOctalPattern =
Pattern.compile("^\\s*[+]?([01]?)([0-7]{3})\\s*$");
private static Pattern chmodNormalPattern =
Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwxXt]+)([,\\s]*)\\s*");
public ChmodParser(String modeStr) throws IllegalArgumentException {
super(modeStr, chmodNormalPattern, chmodOctalPattern);
}
/**
* Apply permission against specified file and determine what the
* new mode would be
* @param file File against which to apply mode
* @return File's new mode if applied.
*/
public short applyNewPermission(FileStatus file) {

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FsPermission perms = file.getPermission();
int existing = perms.toShort();
boolean exeOk = file.isDirectory() || (existing & 0111) != 0;

    return (short)combineModes(existing, exeOk);

} 
}

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package org.apache.hadoop.fs.permission;

import java.util.regex.Matcher;
import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Base class for parsing either chmod permissions or umask permissions.
 * Includes common code needed by either operation as implemented in
 * UmaskParser and ChmodParser classes.
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
class PermissionParser {
    protected boolean symbolic = false;
    protected short userMode;
    protected short groupMode;
    protected short othersMode;
    protected short stickyMode;
    protected char userType = '+';
    protected char groupType = '+';
    protected char othersType = '+';
protected char stickyBitType = '+';

/**
 * Begin parsing permission stored in modeStr
 * @param modeStr Permission mode, either octal or symbolic
 * @param symbolic Use-case specific symbolic pattern to match against
 * @throws IllegalArgumentException if unable to parse modeStr
 */
public PermissionParser(String modeStr, Pattern symbolic, Pattern octal)
    throws IllegalArgumentException {
    Matcher matcher = null;
    if ((matcher = symbolic.matcher(modeStr)).find()) {
        applyNormalPattern(modeStr, matcher);
    } else if ((matcher = octal.matcher(modeStr)).matches()) {
        applyOctalPattern(modeStr, matcher);
    } else {
        throw new IllegalArgumentException(modeStr);
    }
}

private void applyNormalPattern(String modeStr, Matcher matcher) {
    // Are there multiple permissions stored in one chmod?
    boolean commaSeperated = false;
    for (int i = 0; i < 1 || matcher.end() < modeStr.length(); i++) {
        if (i > 0 && (!commaSeperated || !matcher.find())) {
            throw new IllegalArgumentException(modeStr);
        }
    }
    /*
     * groups : 1 : [ugoa]* 2 : [+-=] 3 : [rwxXt]+ 4 : [,\s]*
     */
    String str = matcher.group(2);
    char type = str.charAt(str.length() - 1);
    boolean user, group, others, stickyBit;
    user = group = others = stickyBit = false;
    for (char c : matcher.group(1).toCharArray()) {
        switch (c) {
        case 'u':
            user = true;
            break;
        case 'g':
            group = true;
            break;
        }
break;
case 'o':
others = true;
break;
case 'a':
break;
default:
    throw new RuntimeException("Unexpected");
}

if (!(user || group || others)) { // same as specifying 'a'
    user = group = others = true;
}

short mode = 0;

for (char c : matcher.group(3).toCharArray()) {
    switch (c) {
    case 'r':
        mode |= 4;
        break;
    case 'w':
        mode |= 2;
        break;
    case 'x':
        mode |= 1;
        break;
    case 'X':
        mode |= 8;
        break;
    case 't':
        stickyBit = true;
        break;
    default:
        throw new RuntimeException("Unexpected");
    }

if (user) {
    userMode = mode;
    userType = type;
}

if (group) {
    groupMode = mode;
    groupType = type;
}
if (others) {
    othersMode = mode;
    othersType = type;

    stickyMode = (short) (stickyBit ? 1 : 0);
    stickyBitType = type;
}

commaSeperated = matcher.group(4).contains(",");
}
symbolic = true;
}

private void applyOctalPattern(String modeStr, Matcher matcher) {
    userType = groupType = othersType = '=';

    // Check if sticky bit is specified
    String sb = matcher.group(1);
    if (!sb.isEmpty()) {
        stickyMode = Short.valueOf(sb.substring(0, 1));
        stickyBitType = '=';
    }

    String str = matcher.group(2);
    userMode = Short.valueOf(str.substring(0, 1));
    groupMode = Short.valueOf(str.substring(1, 2));
    othersMode = Short.valueOf(str.substring(2, 3));
}

protected int combineModes(int existing, boolean exeOk) {
    return combineModeSegments(stickyBitType, stickyMode, (existing>>>9), false) << 9 |
    combineModeSegments(userType, userMode, (existing>>>6)&7, exeOk) << 6 |
    combineModeSegments(groupType, groupMode, (existing>>>3)&7, exeOk) << 3 |
    combineModeSegments(othersType, othersMode, existing&7, exeOk);
}

protected int combineModeSegments(char type, int mode, int existing, boolean exeOk) {
    boolean capX = false;

    if (((mode&8) != 0) { // convert X to x;
        capX = true;
        mode &= ~8;
        mode |= 1;
    }
```
switch (type) {
    case '+': mode = mode | existing; break;
    case '-': mode = (~mode) & existing; break;
    case '=': break;
    default : throw new RuntimeException("Unexpected");
}

// if X is specified add 'x' only if exeOk or x was already set.
if (capX && !exeOk && (mode&1) != 0 && (existing&1) == 0) {
    mode &= ~1; // remove x
}

return mode;
```

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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
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Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation
Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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# Jackson JSON processor

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

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# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
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# Corporation, see http://www.zope.com). In 2001, the Python Software
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#
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# from       compatible? (1)
# #
# 0.9.0 thru 1.2    1991-1995    CWI    yes
# 1.3 thru 1.5.2  1.2    1995-1999    CNRI    yes
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Zstd-jni: JNI bindings to Zstd Library

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1.923 aws-sdk-go 1.40.40

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If such an object file uses only numerical parameters, data
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# file only - not the bulk of the SQLite source code and tests.
#
#***********************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
    db eval {
        CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_uuid_parent TEXT NOT NULL DEFAULT ",", t_name TEXT NOT NULL, t_value TEXT NOT NULL DEFAULT ",", b_blob BLOB, d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP, i_tmp INTEGER NOT NULL DEFAULT 0);
        CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')), d_date DATE NOT NULL, t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')), i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
        CREATE TABLE doctransactionitem (id INTEGER NOT NULL, i_object_id INTEGER NOT NULL, t_object_table TEXT NOT NULL, t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')));
    }
}
CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT ",t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_symbol TEXT NOT NULL DEFAULT ",t_country TEXT NOT NULL DEFAULT ",t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL DEFAULT ",i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0,t_source TEXT NOT NULL DEFAULT ");
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT ",t_bank_number TEXT NOT NULL DEFAULT ",t_icon TEXT NOT NULL DEFAULT ");
CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_account_id INTEGER NOT NULL,d_date DATE NOT NULL,f_rate FLOAT NOT NULL CHECK (f_rate>=0),t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));
CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,i_group_id INTEGER NOT NULL DEFAULT 0,i_number INTEGER DEFAULT 0 CHECK (i_number>=0),d_date DATE NOT NULL DEFAULT '0000-00-00',rd_account_id INTEGER NOT NULL,t_mode TEXT NOT NULL DEFAULT ",r_payee_id INTEGER NOT NULL DEFAULT 0,t_comment TEXT NOT NULL DEFAULT ",t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,f_balance FLOAT NOT NULL DEFAULT 0.0000-00-00-00',r_operation_id INTEGER NOT NULL);
CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT ",t_comment TEXT NOT NULL DEFAULT ",t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));
CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT ",t_address TEXT NOT NULL DEFAULT ",t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment TEXT NOT NULL DEFAULT ",rd_operation_id INTEGER NOT NULL,r_category_id INTEGER DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id INTEGER NOT NULL DEFAULT 0,t_formula TEXT NOT NULL DEFAULT ");
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT NOT NULL DEFAULT ",t_definition TEXT NOT NULL DEFAULT ",t_action_description TEXT NOT NULL DEFAULT ",t_action_definition TEXT NOT NULL DEFAULT ",t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')));
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_recurrentoperation_close ON recurrentoperation (t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name, rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date, rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name, rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters';
END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node';
END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN
    UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
    WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN
    UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
    WHERE id=new.id;UPDATE node SET t_name=t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utiliss par account)
    Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
    NEW.rd_bank_id=''' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
    DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budget)
    Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
    NEW.rc_category_id=''' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget)
    Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)"
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id) WHERE (SELECT rc_category_id FROM
budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id) WHERE
NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!="" AND (SELECT id FROM category WHERE
id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id) WHERE NEW.rc_category_id_target!=0 AND
NEW.rc_category_id_target!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id) WHERE (SELECT
rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id) WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id) WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id) WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id) WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionmsg) Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id’) WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest) Nom de la contrainte: fki_interest_account_rd_account_id_id’) WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest) Nom de la contrainte: fku_interest_account_rd_account_id_id’) WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node) Nom de la contrainte: fki_node_node_rd_node_id_id’) WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node) Nom de la contrainte: fku_node_node_rd_node_id_id’) WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation) Nom de la contrainte: fki_operation_account_rd_account_id_id’) WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation) Nom de la contrainte: fku_operation_account_rd_account_id_id’) WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id) WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id) WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW
BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id) WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id) WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id) WHERE (SELECT rc_unit_id FROM operation
WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (recurrentoperation
est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation
est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE
r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (operation est utilis par
operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id) WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par
operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id) WHERE NEW.r_operation_id!=0
AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_balance_operation_r_operation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par recurrentoperation)') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation)') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par suboperation)') WHERE NEW.r_refund_id!=0 AND
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilisé par suboperation) Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id !='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN DELETE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;

CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unit) Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id !='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unit) Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id !='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;

CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;

CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;

CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;

CREATE VIEW v_unit AS SELECT *,f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE t_template='N';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=v_unitvalue.rd_unit_id)),'') AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-%W',v_operation.d_date) AS d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' ELSE '3' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'I' THEN 'Actif' WHEN 'W' THEN 'Investissement' WHEN 'P' THEN 'Portefeuille' WHEN 'L' THEN 'Prêt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name  AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN
u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operation display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;

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

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';

CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;

CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce suivre car utilisés par des opérations rapprochées' END) t_delete_message FROM refund;

CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE  FROM v_refund;

CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;

CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname'\%') AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;

CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce tiers car utilisés par des opérations rapprochées' END) t_delete_message FROM payee;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname'\%') AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer cette catégorie car utilisée par des
CREATE VIEW v_category_display AS SELECT *, f_REALCURRENTAMOUNT + (SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM v_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname\% > %) AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS + (SELECT TOTAL(c.i_NBOPERATIONS) AS INTEGER FROM v_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname\% > %) AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname LIKE vm_category_display_tmp.t_fullname\% > %) THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN ' ' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENL, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSENL5, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENL6, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSENL7, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENL8 FROM v_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *, (SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id为目标),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target为目标),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition<=-1 THEN 'Négatif' WHEN budgetrule.i_condition=0 THEN 'Positif' WHEN budgetrule.i_condition=1 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS, (CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id为目标),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '0'||[i_month ELSE ' '-[i_month END]]) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month==0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,\')\') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND
(v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND
(v_budgetrule_displayname.t_category_condition='N' OR
budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY
v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS
 t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR
EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id) END
WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE

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c.id=new.rd_category_id||' > '||new.t_name END WHERE id=new.id; UPDATE category SET t_name=t_name WHERE rd_category_id=new.id;END;

CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

explain

SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;

} } {/.* Goto .*/}

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

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
  db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
   "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
   "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
   "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
   INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
   "mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER,
   "mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime" INTEGER,
   "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
   "mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
   INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER,
   "mfo:type:graph" INTEGER);
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
   "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
   "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
   "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
   "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,  
"mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,  
"mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,  
"mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,  
"mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph" INTEGER,  
"mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,  
"mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY,  
"mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL,  
"mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL,  
"mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL,  
"mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL,  
"mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL,  
"mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL,  
"mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL,  
"mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL,  
"mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL,  
"mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL,  
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,  
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,  
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,  
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Column Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>mlo:Landmark</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, mlo:belongsToCategory INTEGER NOT NULL, mlo:belongsToCategory:graph INTEGER</td>
</tr>
<tr>
<td>mlo:LandmarkCategory</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>mlo:isRemovable</td>
<td>ID INTEGER NOT NULL, mlo:isRemovable INTEGER NOT NULL, mlo:isRemovable:graph INTEGER</td>
</tr>
<tr>
<td>mlo:belongsToCategory</td>
<td>ID INTEGER NOT NULL, mlo:belongsToCategory INTEGER NOT NULL, mlo:belongsToCategory:graph INTEGER</td>
</tr>
<tr>
<td>mlo:poiLocation</td>
<td>ID INTEGER NOT NULL, mlo:poiLocation INTEGER NOT NULL, mlo:poiLocation:graph INTEGER</td>
</tr>
<tr>
<td>mlo:LocationBoundingBox</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, mlo:boxEastLimit INTEGER NOT NULL, mlo:boxEastLimit:graph INTEGER</td>
</tr>
<tr>
<td>mlo:boxNorthLimit</td>
<td>ID INTEGER NOT NULL, mlo:boxNorthLimit INTEGER NOT NULL, mlo:boxNorthLimit:graph INTEGER</td>
</tr>
<tr>
<td>mlo:boxSouthWestCorner</td>
<td>ID INTEGER NOT NULL, mlo:boxSouthWestCorner INTEGER NOT NULL, mlo:boxSouthWestCorner:graph INTEGER</td>
</tr>
<tr>
<td>mlo:PointOfInterest</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>mlo:Route</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, mlo:endTime INTEGER NOT NULL, mlo:endTime:graph INTEGER, mlo:endTime:localDate INTEGER NOT NULL, mlo:endTime:localTime INTEGER NOT NULL</td>
</tr>
<tr>
<td>mlo:routeDetails</td>
<td>ID INTEGER NOT NULL, mlo:routeDetails TEXT NOT NULL, mlo:routeDetails:graph INTEGER</td>
</tr>
<tr>
<td>mto:DownloadTransfer</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>mto:State</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>mto:SyncTransfer</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>mto:TransferElement</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
</tbody>
</table>
"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination"
INTEGER, "mto:destination:graph" INTEGER, "mto:startedTime" INTEGER,
"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER,
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER,
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph"
INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
NULL, "mto:transferCategory" TEXT NOT NULL,
"mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE,
"nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph"
INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,
"ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE,
"ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,

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"ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime" INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph" INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER, "ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime" INTEGER);

CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:related" INTEGER, "ncal:related:graph" INTEGER, "ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER, "ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE
NOCASE, "ncal:relatedToSibling:graph" INTEGER, "ncal:duration"
INTEGER, "ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT
NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT
NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT
NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT
NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER
NOT NULL, "ncal:relatedToChild" TEXT NOT NULL,
"ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER
NOT NULL, "ncal:relatedToParent" TEXT NOT NULL,
"ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT
NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,
"nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE
NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
  "nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,
  "nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT
  COLLATE NOCASE, "nco:contactUID:graph" INTEGER, "nco:contactLocalUID"
  TEXT COLLATE NOCASE, "nco:contactLocalUID:graph" INTEGER,
  "nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,
  "nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,
  "nco:representative" INTEGER, "nco:representative:graph" INTEGER,
  "nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate"
  INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate"
  INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,
  "nco:sound:graph" INTEGER);

CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
  "nco:contactGroupName" TEXT COLLATE NOCASE,
  "nco:contactGroupName:graph" INTEGER);

CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT
  NULL, "nco:containsContact" INTEGER NOT NULL,
  "nco:containsContact:graph" INTEGER);

CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
  "nco:contactMediumComment" TEXT COLLATE NOCASE,
  "nco:contactMediumComment:graph" INTEGER);

CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
  "ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph"
  INTEGER);

CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
  "ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);

CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
  "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph"
  INTEGER);

CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
  TEXT NOT NULL, "nco:note:graph" INTEGER);

CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL,
  "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph"
  INTEGER);

CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL,
  "scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);

CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
  TEXT NOT NULL, "nco:note:graph" INTEGER);

CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
  TEXT NOT NULL, "nco:note:graph" INTEGER);

CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
  TEXT NOT NULL, "nco:note:graph" INTEGER);

CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
  "nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
  "nco:emailAddress:graph" INTEGER);

CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
  "nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph"
  INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE,
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL, "nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);

CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);

CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);

CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);

CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);

CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);

CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);

CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL, "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);


CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:containsBookmark" INTEGER NOT NULL, "nfo:containsBookmark:graph" INTEGER);

CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL, "nfo:containsBookmarkFolder:graph" INTEGER);

CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:originalLocation" TEXT COLLATE NOCASE, "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER, "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER, "nfo:deletionDate:localTime" INTEGER);

CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:tableOfContents" TEXT COLLATE NOCASE, "nfo:tableOfContents:graph" INTEGER);

CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);

CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);

CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);

CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);

CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER, "nfo:horizontalResolution" INTEGER, "nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER, "nfo:orientation:graph" INTEGER);

CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL, "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);

CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL, "nfo:hasRegionOfInterest" INTEGER NOT NULL, "nfo:hasRegionOfInterest:graph" INTEGER);

CREATE TABLE "nfo:equipment:technique" INTEGER,
"nfo:equipment:technique:graph" INTEGER,
"nfo:equipment:technique:technique" INTEGER,
"nfo:equipment:technique:technique:graph" INTEGER,
"nfo:equipment:technique:technique:technique" INTEGER,
"nfo:equipment:technique:technique:technique:graph" INTEGER,
"nfo:equipment:technique:technique:technique:technique" INTEGER,
"nfo:equipment:technique:technique:technique:technique:graph" INTEGER,
"nfo:equipment:technique:technique:technique:technique:technique" INTEGER,
"nfo:equipment:technique:technique:technique:technique:technique:graph" INTEGER,
"nfo:equipment:technique:technique:technique:technique:technique:technique" INTEGER,
"nfo:equipment:technique:technique:technique:technique:technique:technique:graph" INTEGER,
"nfo:equipment:technique:technique:technique:technique:technique:technique:technique" INTEGER,
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
    "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
    "nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph" INTEGER,
    "nfo:programmingLanguage" TEXT COLLATE NOCASE, "nfo:programmingLanguage:graph" INTEGER,
    "nfo:definesClass" TEXT COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
    "nfo:definesFunction" TEXT COLLATE NOCASE, "nfo:definesFunction:graph" INTEGER,
    "nfo:definesGlobalVariable" TEXT COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
    "nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
    "nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
    "nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
    "nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER,
    "nfo:frameCount" INTEGER, "nfo:frameCount:graph" INTEGER,
    "nfo:averageVideoBitrate" REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
    "nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
    "nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime" INTEGER,
    "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
    "nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
    "nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
    "nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
    "nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph" INTEGER,
    "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
    "nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
    "nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
    "nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
    "nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph" INTEGER,
    "nid3:contentType" TEXT COLLATE NOCASE, "nid3:contentType:graph" INTEGER,
    "nid3:length" INTEGER,
"nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE
NOCASE, "nid3:trackNumber:graph" INTEGER, "nid3:partOfSet" TEXT
COLLATE NOCASE, "nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT
COLLATE NOCASE, "nid3:comments:graph" INTEGER);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,
"nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime" INTEGER,
"nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph" INTEGER,
"tracker:available" INTEGER, "tracker:available:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY
KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph"
INTEGER, "nie:contentLastModified:localDate" INTEGER,
"nie:contentLastModified:localTime" INTEGER, "nie:subject" TEXT
COLLATE NOCASE, "nie:subject:graph" INTEGER, "nie:mimeType" TEXT
COLLATE NOCASE, "nie:mimeType:graph" INTEGER, "nie:language" TEXT
COLLATE NOCASE, "nie:language:graph" INTEGER, "nie:plainTextContent"
TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph"
INTEGER, "nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph"
INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT
COLLATE NOCASE, "nie:copyright:graph" INTEGER, "nie:comment" TEXT
COLLATE NOCASE, "nie:comment:graph" INTEGER, "nie:isStoredAs"
INTEGER, "nie:isStoredAs:graph" INTEGER, "nie:version" TEXT COLLATE
NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER,
"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate" INTEGER,
"nie:contentCreated:localTime" INTEGER, "nie:contentAccessed" INTEGER,
"nie:contentAccessed:graph" INTEGER, "nie:contentAccessed:localDate" INTEGER,
"nie:contentAccessed:localTime" INTEGER, "nie:license" TEXT COLLATE
NOCASE, "nie:license:graph" INTEGER, "nie:identifier" TEXT COLLATE
NOCASE);
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Primary Key</th>
<th>Columns</th>
</tr>
</thead>
<tbody>
<tr>
<td>nmm:SynchronizedText</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td>nmm:isForHearingImpaired INTEGER, nmm:isForHearingImpaired:graph INTEGER</td>
</tr>
<tr>
<td>nmm:Video_mtp:scantype</td>
<td>ID INTEGER NOT NULL</td>
<td>mtp:scantype INTEGER NOT NULL, mtp:scantype:graph INTEGER</td>
</tr>
<tr>
<td>nmm:Video_nmm:director</td>
<td>ID INTEGER NOT NULL</td>
<td>nmm:director INTEGER NOT NULL, nmm:director:graph INTEGER</td>
</tr>
<tr>
<td>nmm:Video_nmm:leadActor</td>
<td>ID INTEGER NOT NULL</td>
<td>nmm:leadActor INTEGER NOT NULL, nmm:leadActor:graph INTEGER</td>
</tr>
<tr>
<td>nmm:Video_nmm:subtitle</td>
<td>ID INTEGER NOT NULL</td>
<td>nmm:subtitle INTEGER NOT NULL, nmm:subtitle:graph INTEGER</td>
</tr>
<tr>
<td>nmm:WhiteBalance</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td></td>
</tr>
<tr>
<td>nmo:Attachment</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td></td>
</tr>
<tr>
<td>nmo:Call</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td>nmo:hasContent INTEGER, nmo:hasContent:graph INTEGER, nmo:isFlagged INTEGER, nmo:isFlagged:graph INTEGER, nmo:isRecent INTEGER, nmo:isRecent:graph INTEGER</td>
</tr>
<tr>
<td>nmo:CommunicationChannel</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td>nmo:lastMessageDate INTEGER, nmo:lastMessageDate:graph INTEGER, nmo:lastMessageDate:localDate INTEGER, nmo:lastMessageDate:localTime INTEGER, nmo:lastSuccessfulMessageDate INTEGER, nmo:lastSuccessfulMessageDate:graph INTEGER, nmo:lastSuccessfulMessageDate:localDate INTEGER, nmo:lastSuccessfulMessageDate:localTime INTEGER</td>
</tr>
<tr>
<td>nmo:CommunicationChannel_nmo:hasParticipant</td>
<td>ID INTEGER NOT NULL</td>
<td>nmo:hasParticipant INTEGER NOT NULL, nmo:hasParticipant:graph INTEGER</td>
</tr>
<tr>
<td>nmo:Conversation</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td></td>
</tr>
<tr>
<td>nmo:DeliveryStatus</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td></td>
</tr>
<tr>
<td>nmo:Email</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
<td>nmo:hasContent INTEGER, nmo:hasContent:graph INTEGER, nmo:isFlagged INTEGER, nmo:isFlagged:graph INTEGER, nmo:isRecent INTEGER, nmo:isRecent:graph INTEGER</td>
</tr>
</tbody>
</table>
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER,
"nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER,
"nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER,
"nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER,
"nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER,
"nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER,
"nmo:htmlMessageContent" TEXT COLLATE NOCASE,
"nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE,
"nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE,
"nmo:messageSubject:graph" INTEGER,
"nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER,
"nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime" INTEGER,
"nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER,
"nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation" INTEGER,
"nmo:conversation:graph" INTEGER, "nmo:communicationChannel" INTEGER,
"nmo:communicationChannel:graph" INTEGER,
"nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
"nmo:reportDelivery" INTEGER, "nmo:reportDelivery:graph" INTEGER,
"nmo:sentWithReportRead" INTEGER, "nmo:sentWithReportRead:graph" INTEGER,
"nmo:reportReadStatus" INTEGER, "nmo:reportReadStatus:graph" INTEGER,
"nmo:mustAnswerReportRead" INTEGER,
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mmsId" TEXT COLLATE NOCASE,
"nmo:mmsId:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, 
"nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY, 
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range" INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER, 
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed" INTEGER, "tracker:fulltextIndexed:graph" INTEGER, 
"tracker:defaultValue" TEXT COLLATE NOCASE, 
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER, 
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER, 
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER, 
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, 
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, 
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, 
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, 
"tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY, 
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range" INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER, 
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed" INTEGER, "tracker:fulltextIndexed:graph" INTEGER, 
"tracker:defaultValue" TEXT COLLATE NOCASE, 
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER, 
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER, 
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER, 
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY, 
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE, 
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE, 
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER, 
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER, 
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER, 
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER, 
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE, 
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE, 
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE, 
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE, 
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE, 
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL, "dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY, "scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due" INTEGER, "scal:due:graph" INTEGER, "scal:exceptionRDate:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER, "tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER, "tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER, "tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
CREATE UNIQUE INDEX "mlo:FeedMessage_mlo:enclosureList_ID_ID" ON "mlo:FeedMessage_mlo:enclosureList" (ID, "mlo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:boxNorthLimit";
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_nco:anniversary" (ID, "nco:anniversary");
CREATE UNIQUE INDEX "nco:Contact_nco:birthday" (ID, "nco:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON "nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON "nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON "nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact" ("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON "nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON "nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON "nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON "nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID,
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON "nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON "nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON "nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON "nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece" ("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece" ("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON "nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON "nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID, "nmo:hasParticipant");
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON "nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON "nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON "nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc" (ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message" ("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON
"scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE
ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID ="1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
"nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE), 'n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation"
AS
NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation" WHERE ID = "2_u") COLLATE NOCASE, "nco:Affiliation" COLLATE NOCASE), COALESCE((SELECT GROUP_CONCAT("nco:title",',') FROM "nco:Affiliation_nco:title" WHERE ID = "2_u"), "nco:Affiliation" COLLATE NOCASE), '

"nco:PersonContact_nco:hasAffiliation11", "nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11"."ID" AND "nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12"."ID"), (SELECT GROUP_CONCAT("10_u" COLLATE NOCASE, '; ')) FROM (SELECT "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS "8_u", "nao:Property14"."nao:propertyValue" AS "9_u", "nao:Property14"."nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nao:Property" AS 
"nao:Property14" WHERE "1_u" = 
"nie:InformationElement_nao:hasProperty13"."ID" AND 
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" = 
"nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT 
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE)) FROM (SELECT 
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS 
"nco:PersonContact1") ORDER BY "1_u";

} {/.* Goto .*/}

finish_test

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

without a shared lock, other processes are free to modify the database

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

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained.
You are welcomed to use SQLite in closed source, proprietary, and/or

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

)<putinterval

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

Suppose the demo_data.boundary field holds some proprietary data description

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

Sources are in the public domain.

Rather than using fopen() to write XML or some proprietary format into

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

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

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if !fts2 {
  finish_test
  return
}

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

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

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

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

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

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

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

Gentlemen,

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

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

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

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

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

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

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

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

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

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

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

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

Wendy':

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

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

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

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

'):

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

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

Thank for your help!"

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

Jim

');

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

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

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

You are invited to attend the EWS Brown Bag Lunch Series
Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

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

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

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

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

<<About St Pauls.url>>

Chris,

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

Let me know.?? ii

- About St Pauls.url

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

Here is a goody for you;

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

Susan Pereira);

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160);

-----Original Message-----
From: Royed, Jeff

35227
Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

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

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

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

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

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';
From: William Kelly @ ECT 12/20/2000 08:31 AM

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

Subject: New EAST books

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

Thanks for your help on this.

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

WK

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

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

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

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

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

Dave');

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

I saw it. Very interesting.

Vince

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

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: i will try to line up a pig for you ');

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

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', ' Dale,

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

Thanks,

Eric');

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

Dear SmartReminders Member,

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

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

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

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',

---

Open Source Used In Secure Workload 3.6.1.1  12960
The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben;

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

Ben';

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

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

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

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

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

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

Marcie


Who is General Brinks?

Fletch');

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

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

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

Nailia

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

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

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

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

Peggy

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

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

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

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


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

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

Aaron Goddard
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time) I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.
Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,' I’ll get it done today.

DG 3-9573
From: Bryce Baxter                           06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you
complete her feedback by end of business Wednesday? It will really help me
in the PRC process to have your input. Thanks.

'),

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the
attached.

ds

'),

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Please contact me if you have any questions regarding last weeks prices. Thank you,
In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36,090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.
Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com)

--- Original Message ---
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY''s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

--- Original Message ---
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email(from,to,subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email(from,to,subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???', 'What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email(from,to,subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks
chris
x31666');
Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490;

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Diana Seifert
EOL PCG);

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:
give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Relaint
Steve McGinn 713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', "', 'Lite Bytz RSVP', '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztolzprint.jpg');
    COMMIT;
}

do_test fts2c-1.2 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark'
    }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan'
    }
} {24 40}
do_test fts2c-1.4 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark susan'
    }
} {40}
do_test fts2c-1.5 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan mark'
    }
} {40}
do_test fts2c-1.6 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH "mark susan"
    }
} {}
do_test fts2c-1.7 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark -susan'
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
}
}

do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}
}

# Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.

# do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}
}

do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}
}

do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
}
}

do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}
}

do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
}
}

{ 20 { 2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3 }}
Document 32 contains 5 instances of the word "child". But only
3 of them are paired with "product". Make sure only those instances
that match the phrase appear in the offsets(email) list.

do_test fts2c-3.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
    }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH '"child product"'
    }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

Snippet generator tests

do_test fts2c-4.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'christmas candlelight'
    }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}
do_test fts2c-4.3 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
    Review Enron asset base for <b>potential</b>/ licensing
    Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent

Open Source Used In Secure Workload 3.6.1.1 12976
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations ]}
do_test fts2c-4.5 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts2c-4.6 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"
}
} {{Erin:
<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'
}
} {{<b>pete</b.@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variance detected.
Variance detected in <b>Load</b> schedule.

LOG MESSAGES:

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'
}
} {{<b>matt.smith</b>enron.com <b>...</b> six reports:

31 Keystone Receipts
do_test fts2c-5.2 {
execsql {
  SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
}
{matt.smith@enron.com <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

INSERT INTO x1 VALUES('blonds', 'proprietary');

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
#$Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
    db eval {
      CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
      BEGIN TRANSACTION;
      INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent”s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent"s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1 - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com.', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

INSERT INTO email(from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email(from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email(from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email(from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');

INSERT INTO email(from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.
Regards
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.
Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,' PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toe_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');?>;
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');;
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.)

---

Open Source Used In Secure Workload 3.6.1.1 12982
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ’;

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610’;

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>

? http://www.stpaulshouston.org/about.html
Chris,

I like the looks of this place. What do you think about going here Christmas eve? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sabloaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??
Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.
');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ",
'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat
PS. Just a reminder to add the "**" by the title of calculated points."

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.
New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.,tholt@enron.com',
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', ", 'The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA''s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this
requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based
rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To:":00000000"00000000"
<smara@enron.com> cc: Subject: CAISO Emergency Motion
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEEnronXGate
cc: Ross Sankey/Enron@EUEEnronXGate, Eric Shaw/ENRON@EUEEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia
Attached are our comments and suggested changes. Please call to review.

On the timeline for completion, we have four critical steps to complete:
   - Finalize market analysis to refine business case, specifically projected revenue stream
   - Complete counterparty surveying, including targeting 3 CPs for letters of intent
   - Review Enron asset base for potential reuse/licensing
   - Contract negotiations

Joe will come back to us with an updated timeline, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual timeline here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com;', 'email address change', 'Hello all.

I haven”t talked to many of you via email recently but I do want to give you
my new address for your email file:

 bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I”m hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.
');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc: 
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you
complete her feedback by end of business Wednesday? It will really help me
in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie
Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out....
www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Please let me know if you have any questions or feedback,

Kourtney

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.
Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,' , 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???,

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

"<< File: Netco Trader Matrix.xls >>"
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend!  Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax  713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.
Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'Please advise if I can set up a guest account or not. F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country. Thanks!

Best regards

Diana Seifert
EOL PCG');
'RE': 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corp
Albert LaMore 281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Reliant
Steve McGinn 713-207-4000

INSERT INTO email([from],[to],[subject],[body]) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
FROM email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg');

COMMIT;

###############################################################################
# Everything above just builds an interesting test database. The actual tests come after this comment.
###############################################################################

do_test fts1c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
}
do_test fts1c-1.4 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark susan'
    }
}
}

do_test fts1c-1.5 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan mark'
    }
}
}

do_test fts1c-1.6 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark susan'
    }
}
{}

do_test fts1c-1.7 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark -susan'
    }
}
}{6 17 25 38 42 73 74}

do_test fts1c-1.8 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH '-mark susan'
    }
}
}{24}

do_test fts1c-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    }
}
}{6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
            WHERE email MATCH 'gas reminder'
    }
}
}{20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts1c-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
            WHERE email MATCH 'subject:gas reminder'
    }
}
}{20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
# do_test fts1c-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
# do_test fts1c-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E<<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
do_test fts1c-4.3 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
}
}
{
    {<b>...</b> place.? What do you think about going here <b>Christmas</b>
    eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
    among others. <b>...</b>}}

do_test fts1c-4.4 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
}
{
    {EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
        Review Enron asset base for <b>potential</b>/ <b>reuse</b>/ licensing
        Contract negotiations <b>...</b>}}

do_test fts1c-4.5 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'first things'
    }
}
{
    {Re: <<First>>> Polish Deal! Congrats! <<Things>>> seem to be building rapidly now on the  }}

do_test fts1c-4.6 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'chris is here'
    }
}
{
    {<b>...</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
        Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}

do_test fts1c-4.7 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH "pursuant to"
    }
}
{
    {Erin:
        <b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}

do_test fts1c-4.8 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'ancillary load davis'
    }
}
Variance detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING ...

# Combinations of AND and OR operators:
#
# do_test fts1c-5.1 {
excsq1 {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> ...}} six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 ...

do_test fts1c-5.2 {
excsq1 {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@<b>enron</b>.<b>com</b> ...}} six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 ...

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%Copyright
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain

application code is free to use these routines as well, if desired.

MMFauxFont.prc

No license file was found, but licenses were detected in source scan.

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<p>Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members. </p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with
no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.
<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>CONTACT INFORMATION:<br>
SQLite Consortium<br>Dr. D. Richard Hipp<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>Email: drh@sqlite.org<br>http://www.sqlite.org/<br>Tel: +1.704.948.4565</p>

<p><b>About Mozilla</b></p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.</p>

<p>CONTACT INFORMATION:<br>Mozilla Corporation<br>Jessica Waight<br>Tel: +1.415.345.4754<br>Email: jwaight@outcastpr.com</p>

<p><b>About Symbian Limited</b></p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the
United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan.
For more information, please visit www.symbian.com.

<p>CONTACT INFORMATION:<br>Symbian Global Press Office<br>Karen Hamblen<br>+44 207 154 1707<br>press@symbian.com</p>

No license file was found, but licenses were detected in source scan.

The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

SQLite core and like the SQLite core are in the public domain. The TH3 test harness is a set of proprietary tests, written in

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the
Found in path(s):
No license file was found, but licenses were detected in source scan.

/ *
  ** The "printf" code that follows dates from the 1980's. It is in
  ** the public domain. The original comments are included here for
  ** completeness. They are very out-of-date but might be useful as
  ** an historical reference. Most of the "enhancements" have been back
  ** out so that the functionality is now the same as standard printf().
  **
  ** *********************************************************************
  **
  ** This file contains code for a set of "printf"-like routines. These
  ** routines format strings much like the printf() from the standard C
  ** library, though the implementation here has enhancements to support
  ** SQLite.
  */

Found in path(s):
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>
<p>This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the ____ day of ____________, 2007 ("Effective Date")
by and between ________________ (the "Company"), and
Hipp, Wyrick &amp; Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>
WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at
http://www.sqlite.org/ ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers
<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has
expressed a specific interest.
</p>

<h4>2.1.8 Code Quality</h4>
<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.
</p>

<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.
</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.
</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.
</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.
</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.
</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality
and correctness of those changes.
</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than
once every 12 months, to inspect and make extracts or copies
of such records solely for the purpose of ascertaining Hwaci's
compliance with the objectives and requirements of this agreement.

2.3.6 Disaster Planning
Hwaci shall maintain backup copies of all
SQLite source files and documentation, current and historical,
at least two separate locations separated from each
other and from the primary on-line SQLite repository
by at least 400 kilometers.

2.3.7 Trademark
Hwaci shall maintain ownership of the SQLite trademark and
the sqlite.org domain name and shall purchase bandwidth and
server space for the http://www.sqlite.org/ website.

2.3.8 No Take-overs or Buy-outs
Neither Hwaci nor the SQLite Architect shall relinquish development
control of SQLite during the term of this Agreement, by acquisition or merger
or by any other means, except with the consent of Company.

2.3.9 New Consortium Members
New Consortium Members may be accepted into the consortium from
time to time under identical terms as this agreement, or under
substantially similar terms that have been approved by existing
Consortium Members.

2.3.10 Adequate Staff
Hwaci shall recruit and employ a sufficient number of qualified
SQLite Developers to easily cover all custom development,
debugging, and general support service obligations for all
Consortium Members while still providing ample time for
the SQLite Developers to engage in general maintenance
and extension of SQLite.

2.3.11 Use Of Funds
Hwaci shall use the funds provided hereunder
solely for the development and maintenance of SQLite as set forth in
this Agreement.
Interest on funds received in advance and held in trust will
be reinvested and used for the same purposes as the principal.
2.4 Responsibilities And Obligations Of Company

2.4.1 Funding
Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

2.4.2 Copyright Disclaimer
Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees
In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information
"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure.
Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any
Confidential Information, execute a nondisclosure agreement containing provisions in Company’s favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>
Upon the termination of this Agreement, or upon Company’s earlier request, Hwaci shall deliver to Company all of Company’s property or Confidential Information that Hwaci may have in Hwaci’s possession or control.

<h2>5.0 Intellectual Property</h2>
<h3>5.1 No Assignment</h3>
Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.
<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>
THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

7.0 Term And Termination

7.1 Term.

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

7.3 Survival.

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8. Miscellaneous

8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which
consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be
severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.
No license file was found, but licenses were detected in source scan.

/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code. In place of
 ** a legal notice, here is a blessing:
 **
 ** May you do good and not evil.
 ** May you find forgiveness for yourself and forgive others.
 ** May you share freely, never taking more than you give.
 **
 ****************************************************************************
 **
 ** This file contains the VFS implementation for unix-like operating systems
 ** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
 **
 ** There are actually several different VFS implementations in this file.
 ** The differences are in the way that file locking is done. The default
 ** implementation uses Posix Advisory Locks. Alternative implementations
 ** use flock(), dot-files, various proprietary locking schemas, or simply
 ** skip locking all together.
 **
 ** This source file is organized into divisions where the logic for various
 ** subfunctions is contained within the appropriate division. PLEASE
 ** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
 ** in the correct division and should be clearly labeled.
** The layout of divisions is as follows:

**

** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking methods
**   methods plus “finder” functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*

* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* 
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
* 
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%%Version
No license file was found, but licenses were detected in source scan.

Public domain
The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>

the public domain and originals of author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require the public domain. <li>
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# Create a table to work with.
#
do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
  execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
  }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
    ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {rsroh}
do_test func-2.2 {
execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {ogrftw} is}
do_test func-2.3 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {esmes}
do_test func-2.4 {
execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {esmes}
do_test func-2.5 {
execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {eiari}
do_test func-2.6 {
execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {eeisamreis}
do_test func-2.7 {
execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} grwa th}
do_test func-2.8 {
execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
execsql {DELETE FROM tbl1}
foreach word "contains UTF-8 characters hi\u1234ho" {
execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on \u1234h"
do_test func-3.5 {
execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "T- ar nt \u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}
}

;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
    INSERT INTO t1 VALUES(3,-2,-5);
}
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
    } {1 {wrong number of arguments to function abs()}}
  }
  do_test func-4.2 {
    catchsql {SELECT abs() FROM t1}
    } {1 {wrong number of arguments to function abs()}}
  ifcapable floatingpoint {
    do_test func-4.3 {
      catchsql {SELECT abs(b) FROM t1 ORDER BY a}
      } {0 {2 1.2345678901234 2}}
    do_test func-4.4 {
      catchsql {SELECT abs(c) FROM t1 ORDER BY a}
      } {0 {3 12345.67895}}
    }
  ifcapable !floatingpoint {
    if {[working_64bit_int]} {
      do_test func-4.3 {
        catchsql {SELECT abs(b) FROM t1 ORDER BY a}
        } {0 {2 12345678901234 2}}
      }
    do_test func-4.4 {
      catchsql {SELECT abs(c) FROM t1 ORDER BY a}
      } {0 {3 1234567890 5}}
    }
  do_test func-4.4.1 {
    execsql {SELECT abs(a) FROM t2}
    } {1 {} 345 {} 67890}
  do_test func-4.4.2 {
    execsql {SELECT abs(t1) FROM tbl1}
    } {0.0 0.0 0.0 0.0 0.0}
  ifcapable floatingpoint {
    do_test func-4.5 {
      catchsql {SELECT round(a,b,c) FROM t1}
      } {1 {wrong number of arguments to function round()}}
    do_test func-4.6 {
      catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
      } {0 {-2.0 1.23 2.0}}
    do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a} ] {0 [2.0 1.0 -2.0]}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a} ] {0 [3.0 -12346.0 -5.0]}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a} ] {0 [3.0 -12345.68 -5.0]}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a} ] {0 [x3.0y x-12345.68y x-5.0y]}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a} ] {1 [wrong number of arguments to function round()]}do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),'nil') FROM t2} ] {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1} ] {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));} ] {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));} ] {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b} ] {0 [-2.0 1.23 2.0]}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
    execsql {SELECT round($x1);} ] $x2
}
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
    execsql {SELECT round($x1,1);} ] $x2
}
do_test func-4.20 {
execsql {SELECT round(40223.4999999999999999);} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.4999999999999999);} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.4999999999999999);} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.4999999999999999,$i);} {40223.5}
    do_test func-4.24.$i {
        execsql {SELECT round(40224.4999999999999999,$i);} {40224.5}
    do_test func-4.25.$i {
        execsql {SELECT round(40225.4999999999999999,$i);} {40225.5}
    }
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999999999,$i);} {40223.4999999999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999999999,$i);} {40224.4999999999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999999999,$i);} {40225.4999999999999999}
    }
    do_test func-4.29 {
        execsql {SELECT round(1234567890.5);} {1234567891.0}
    do_test func-4.30 {
        execsql {SELECT round(12345678901.5);} {12345678902.0}
    do_test func-4.31 {
        execsql {SELECT round(123456789012.5);} {1234567890123.0}
    do_test func-4.32 {
        execsql {SELECT round(1234567890123.5);} {12345678901234.0}
    do_test func-4.33 {
        execsql {SELECT round(12345678901234.5);} {123456789012345.0}
    do_test func-4.34 {
        execsql {SELECT round(123456789012345.1);} {123456789012345.4}
do_test func-4.35 {
  execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.45}
do_test func-4.36 {
  execsql {SELECT round(999999999994.5);} 
} {999999999994.5}
do_test func-4.37 {
  execsql {SELECT round(999999999999.55,1);} 
} {999999999999.6}
do_test func-4.38 {
  execsql {SELECT round(9999999999999.556,2);} 
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1} 
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1} 
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2} 
} {1 1 { } { } 345 345 { } { } 67890 67890}
if capable !icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2} 
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2} 
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2} 
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2} 
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')} 
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')} 
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.0 1 67890 5}
}
}
do_test func-8.2 {
 execsql {
  SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
}
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

ifcapable tempdb {
do_test func-8.3 {
 execsql {
  CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
  SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
}
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
do_test func-8.3 {

execsql {
    CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
do_test func-8.4 {
    execsql {
        SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
} ifcapable compound {
do_test func-8.5 {
    execsql {
        SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
            UNION ALL SELECT -9223372036854775807)
    } {0}
do_test func-8.6 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
            UNION ALL SELECT -9223372036854775807)
    } {integer}
do_test func-8.7 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
            UNION ALL SELECT -9223372036854775807)
    } {real}
} ifcapable floatingpoint {
do_test func-8.8 {
    execsql {
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
            UNION ALL SELECT -9223372036854775807)
    } {1}
} ifcapable !floatingpoint {
do_test func-8.8 {
    execsql {
        SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
            UNION ALL SELECT -9223372036854775807)
    } {1}
}
# How do you test the random() function in a meaningful, deterministic way?

```sql
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)), length(randomblob(2000))
  }
} {32 1 2000}
```

# The "hex()" function was added in order to be able to render blobs generated by randomblob(). So this seems like a good place to test hex().

```sql
if capable bloblit {
  do_test func-9.10 {
    execsql {SELECT hex(x'00112233445566778899aAbBeCDeEiF')}
  } {00112233445566778899AABBCCDDEEFF}
} set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
  do_test func-9.11-utf16le {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
  } {6100620063006400310032006700}
do_test func-9.12-utf16le {
    execsql {SELECT hex(replace('abcdefg','a','aaa'))}
  } {6100620063006400650066006700}
do_test func-9.13-utf16le {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
  } {6100620063006400650066006700}
```
do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {61626364313267}

do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','','12'))}
} {61626364656667}

do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
} {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
# set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
    catchsql {
        SELECT testfunc(NULL,NULL);
    }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
    execsql {
        SELECT testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'int', 1234
        );
    }
} {1234}
do_test func-10.3 {
    execsql {
        SELECT testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'double', 1.234
        );
    }
} {{{}}}

ifcapable floatingpoint {
    do_test func-10.4 {
        execsql {
            SELECT testfunc(
                'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                'double', 1.234
            );
        }
    }
}
);
}
} {1.234}
do_test func-10.5 {
execsql {
SELECT testfunc(
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234
);
}
} {1.234}
}
# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
execsql {
SELECT sqlite_version(*);
}
} [sqlite3 -version]
# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
do_test func-12.1-utf8 {
execsql {
SELECT test_destructor('hello world'), test_destructor_count();
}
} {{hello world} 1}
} else {
ifcapable {utf16} {

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do_test func-12.1-utf16 {
  execsql {
    SELECT test_destructor16('hello world'), test_destructor_count();
  }
} {{hello world} 1}
}
}
do_test func-12.2 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.3 {
  execsql {
    SELECT test_destructor('hello')||' world'
  }
} {{hello world}}
do_test func-12.4 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.5 {
  execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(test_destructor('hello'));
    INSERT INTO t4 VALUES(test_destructor('world'));
    SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
  }
} {hello world}
do_test func-12.6 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.7 {
  execsql {
    DROP TABLE t4;
  }
} {}
}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
}
}
do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
} {0 1}
do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
} {{0 0} {1 1}}
do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
} {{0 0} {1 0}}
do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "SELECT test_auxdata(?, a) FROM t4;"
  set STMT [sqlite3_prepare $DB $sql -1 TAIL] sqlite3_bind_text $STMT 1 hello\000 -1
  set res [list]
  while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
    lappend res [sqlite3_column_text $STMT 0]
  }
  lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
  db function [string repeat X 254] {return "hello"}
# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
  execsql {
    CREATE TABLE tbl2(a, b);
  }
  set STMT [sqlite3_prepare ::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
  sqlite3_bind_blob ::STMT 1 abc 3
  sqlite3_step ::STMT
  sqlite3_finalize ::STMT
  execsql {
    SELECT quote(a), quote(b) FROM tbl2;
  }
  } {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
  proc testfunc1 args {error "Error %d with %s percents %p"}
  db function testfunc1 ::testfunc1
  catchsql {
    SELECT testfunc1(1,2,3);
  }
  } {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
execsql {  
CREATE TABLE t5(x);  
INSERT INTO t5 VALUES(1);  
INSERT INTO t5 VALUES(-99);  
INSERT INTO t5 VALUES(10000);  
SELECT sum(x) FROM t5;  
}  
} {9902} 
ifcapable floatingpoint {  
do_test func-18.2 {  
execsql {  
INSERT INTO t5 VALUES(0.0);  
SELECT sum(x) FROM t5;  
}  
} {9902.0}  
}  

# The sum of nothing is NULL. But the sum of all NULLs is NULL.  
#  
# The TOTAL of nothing is 0.0.  
#  
do_test func-18.3 {  
execsql {  
DELETE FROM t5;  
SELECT sum(x), total(x) FROM t5;  
}  
} {{} 0.0}  
do_test func-18.4 {  
execsql {  
INSERT INTO t5 VALUES(NULL);  
SELECT sum(x), total(x) FROM t5  
}  
} {{} 0.0}  
do_test func-18.5 {  
execsql {  
INSERT INTO t5 VALUES(NULL);  
SELECT sum(x), total(x) FROM t5  
}  
} {{} 0.0}  
do_test func-18.6 {  
execsql {  
INSERT INTO t5 VALUES(123);  
SELECT sum(x), total(x) FROM t5  
}  
} {123 123.0}  

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes  
# an error. The non-standard TOTAL() function continues to give a helpful
do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
} 0
}
do_test func-18.11 {
execsql {
    SELECT typeof(sum(x)) FROM t6
} integer
}
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
} 0.0
}
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
} 0.0
}
}
if {[working_64bit_int]} {
do_test func-18.14 {
execsql {
    SELECT sum(-9223372036854775805);
} -9223372036854775805
}
if capable compound\&\&subquery {

do_test func-18.15 {
catchsql {
    SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
}
} {1 {integer overflow}}
if [working_64bit_int] {
do_test func-18.16 {
catchsql {
    SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
        SELECT -10 AS x);
}
} {0 9223372036854775797}
do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
}
} {0 -9223372036854775797}
do_test func-18.18 {
catchsql {
    SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
        SELECT -10 AS x);
}
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
}
} {0 -1}
do_test func-18.20 {
catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
}
} {0 1}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
}
} {0 -1}
do_test func-18.22 {
}
catchsql {
  SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
} 
} {0 1}

} ;# if capable compound && subquery

# Integer overflow on abs()
#
if {[[working_64bit_int]]} {
do_test func-18.31 {
catchsql {
    SELECT abs(-9223372036854775807);
} 
} {0 9223372036854775807}
}
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
} 
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
  execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
  }
} {}
do_test func-19.2 {
catchsql {
    SELECT 'abc' MATCH 'xyz';
} 
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
} 
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
catchsql {
    SELECT match(1,2,3);
} 
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if {![catch {db eval {SELECT soundex('hello')}}]} {
set i 0
foreach {name sdx} {
    euler E460
    EULER E460
    Euler E460
    ellery E460
    gauss G200
    ghosh G200
    hilbert H416
    Heilbronn H416
    knuth K530
    kant K530
    Lloyd L300
    LADD L300
    Lukasiewicz L222
    Lissajous L222
    A A000
    12345 ?000
} {
    incr i
    do_test func-20.$i {
        execsql {SELECT soundex($name)}
    } $sdx
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
    catchsql {
        SELECT replace(1,2);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
    catchsql {
        SELECT replace(1,2,3,4);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
    execsql {
        SELECT typeof(replace("This is the main test string", NULL, "ALT"));
    }
} {null}
do_test func-21.4 {
    execsql {
        SELECT typeof(replace(NULL, "main", "ALT"));
    }
} {null}
do_test func-21.5 {
  execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
  }
}

do_test func-21.6 {
  execsql {
    SELECT replace("This is the main test string", "main", "ALT");
  }
}

do_test func-21.7 {
  execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
  }
}

do_test func-21.8 {
  execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
  }
}

if capable tclvar {
  do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str [string repeat A 29998]CC[string repeat A 35537]
    set ::rep [string repeat B 65536]
    execsql {
      SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
    [expr 29998 + 2*65536 + 35537]
  }

  # Tests for the TRIM, LTRIM and RTRIM functions.
  do_test func-22.1 {
    catchsql {SELECT trim(1,2,3)}
    [1 {wrong number of arguments to function trim()})
  }
  do_test func-22.2 {
    catchsql {SELECT ltrim(1,2,3)}
    [1 {wrong number of arguments to function ltrim()})
  }
  do_test func-22.3 {
    catchsql {SELECT rtrim(1,2,3)}
    [1 {wrong number of arguments to function rtrim()})
  }
  do_test func-22.4 {
    execsql {SELECT trim( ' hi ');}
    [hi]
  }
  do_test func-22.5 {
execsql {SELECT ltrim(' hi ');}  
} {{ hi }}
do_test func-22.6  
execsql {SELECT rtrim(' hi ');}  
} {{ hi }}
do_test func-22.7  
execsql {SELECT trim(' hi ','xyz');}  
} {{ hi }}
do_test func-22.8  
execsql {SELECT ltrim(' hi ','xyz');}  
} {{ hi }}
do_test func-22.9  
execsql {SELECT rtrim(' hi ','xyz');}  
} {{ hi }}
do_test func-22.10  
execsql {SELECT trim('xyxzy hi zzzy','xyz');}  
} {{ hi }}
do_test func-22.11  
execsql {SELECT ltrim('xyxzy hi zzzy','xyz');}  
} {{ hi zzzy}}
do_test func-22.12  
execsql {SELECT rtrim('xyxzy hi zzzy','xyz');}  
} {{xyxzy hi }}
do_test func-22.13  
execsql {SELECT trim(' hi ','');}  
} {{ hi }}
if {[db one {PRAGMA encoding}]=="UTF-8"}  
do_test func-22.14  
execsql {SELECT hex(trim(x'c280e1bfbff48fbfbf6869','x'6162e1bfbfc280'))}  
} {F48FBFBF6869}
do_test func-22.15  
execsql {SELECT hex(trim(x'6869c280e1bfbff48fbfbf61',  
x'6162e1bfbfc280f48fbf'))}  
} {6869}
do_test func-22.16  
execsql {SELECT hex(trim(x'ceb1ceb2ceb3','x'ceb1'));}  
} {CEB2CEB3}
do_test func-22.20  
execsql {SELECT typeof(trim(NULL));}  
} {null}
do_test func-22.21  
execsql {SELECT typeof(trim(NULL,'xyz'));}  
} {null}
do_test func-22.22  
execsql {SELECT typeof(trim('hello',NULL));}  
} {null}
# This is to test the deprecated sqlite3_aggregate_count() API.
#
if capable deprecated {
  do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
      SELECT legacy_count() FROM t6;
    }
  } {3}
}
#
# The group_concat() function.
#
  do_test func-24.1 {
    execsql {
      SELECT group_concat(t1) FROM tbl1
    }
  } {this,program,is,free,software}
  do_test func-24.2 {
    execsql {
      SELECT group_concat(t1,' ') FROM tbl1
    }
  } {{this program is free software}}
  do_test func-24.3 {
    execsql {
      SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
    }
  } {{this 2 program 3 is 4 free 5 software}}
  do_test func-24.4 {
    execsql {
      SELECT group_concat(NULL,t1) FROM tbl1
    }
  } {{}}
  do_test func-24.5 {
    execsql {
      SELECT group_concat(t1,NULL) FROM tbl1
    }
  } {this program is free software}
  do_test func-24.6 {
    execsql {
      SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
    }
  } {BEGIN-this,program,is,free,software}
#
# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
    append midargs ,/$i/
    append midres /$i/
    set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}" ]
    set sql "SELECT md5sum(t1$midargs) FROM tbl1"
    do_test func-24.7.$i {
        db eval $::sql
    } $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
    } {,program,is,free,software}
do_test func-24.9 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
    } {,,,,software}
}
# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
    } {program,is,free,software}
do_test func-24.11 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
    } {software}
do_test func-24.12 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN ''
            WHEN 'program' THEN null ELSE t1 END) FROM tbl1
    }
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}
# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}

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do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}

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# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
  db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
  }
catchsql {
    INSERT INTO t28(x) VALUES(1);
  }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}
do_test func-29.3 {
  db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
do_test func-29.4 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x>100} {set x many}
  set x
} {many}
}
do_test func-29.5 {
  db close
sqlite3 db test.db
}
sqlite3_db_status db CACHE_MISS 1

db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('¢');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('€');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);] [subst {$u00A2u20AC}]}

for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
if {$i==0xfeff} continue
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a a
    aaron aaron
    abaissiez abaissiez
    abandon abandon
    abandoned abandon
    abase abas
    abash abash
    abate abat
    abated abat
    abatement abat
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    abates abat
    abbess abbess
    abbey abbei
    abbeys abbei
    abominable abomin
    abbot abbot
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    abbreviated abbrevi
    abed ab
    abel abel
    aberga aberga
    abergavenny abergavenni
    abet abet
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    abominable abomin
absey    absei
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alexandrian alexandrian
alexas     alexa
alias      alia
alice      alic
alien      alien
aliena     aliena
alight     alight
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alights    alight
alii       alii
alike      alik
alisander  alisand
alive      aliv
all         all
alla        alla
allay      allai
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# Create a full-text index to use for testing the stemmer.

```
db close
sqlite3 db :memory:
db eval {
    CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}
```

foreach {pfrom pto} $porter_test_data {
    do_test fts1porter-$pfrom {
        execsql {
            DELETE FROM t1_term;
            DELETE FROM t1_content;
            INSERT INTO t1(word) VALUES($pfrom);
        }
    }
}
SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>.  No claim of ownership is made

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of
members can also request their own private, proprietary extensions

Found in path(s):
No license file was found, but licenses were detected in source scan.

{string currentfile exch readstring pop}executeonly def

Found in path(s):
* /
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
**[SQLITE_CONFIG_SINGLETHREAD]** <dt>SQLITE_CONFIG_SINGLETHREAD</dt><dd>
There are no arguments to this option. ^This option sets the
threading mode to Single-thread. In other words, it disables
all mutixing and puts SQLite into a mode where it can only be used
by a single thread. ^If SQLite is compiled with
the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
it is not possible to change the [threading mode] from its default
value of Single-thread and so [sqlite3_config()] will return
[SQLITE_ERROR] if called with the [SQLITE_CONFIG_SINGLETHREAD] configuration option.</dd>

**[SQLITE_CONFIG_MULTITHREAD]** <dt>SQLITE_CONFIG_MULTITHREAD</dt><dd>
There are no arguments to this option. ^This option sets the
threading mode to Multi-thread. In other words, it disables
mutixing on [database connection] and [prepared statement] objects.
The application is responsible for serializing access to
(database connections] and [prepared statements]. But other mutexes
are enabled so that SQLite will be safe to use in a multi-threaded
environment as long as no two threads attempt to use the same
(database connection at the same time. ^If SQLite is compiled with
the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
it is not possible to set the Multi-thread [threading mode] and
[sqlite3_config()] will return [SQLITE_ERROR] if called with the
[SQLITE_CONFIG_MULTITHREAD] configuration option.</dd>

**[SQLITE_CONFIG_SERIALIZED]** <dt>SQLITE_CONFIG_SERIALIZED</dt><dd>
There are no arguments to this option. ^This option sets the
threading mode to Serialized. In other words, this option enables
all mutexes including the recursive
mutexes on [database connection] and [prepared statement] objects.
In this mode (which is the default when SQLite is compiled with
[SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
to [database connections] and [prepared statements] so that the
application is free to use the same [database connection] or the
same [prepared statement] in different threads at the same time.
^If SQLite is compiled with
the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
it is not possible to set the Serialized [threading mode] and
[sqlite3_config()] will return [SQLITE_ERROR] if called with the
[SQLITE_CONFIG_SERIALIZED] configuration option.</dd>

**[SQLITE_CONFIG_MALLOC]** <dt>SQLITE_CONFIG_MALLOC</dt><dd>^(This option takes a single argument which is a pointer to an
instance of the [sqlite3_mem_methods] structure. The argument specifies
alternative low-level memory allocation routines to be used in place of
the memory allocation routines built into SQLite.)^ SQLite makes
its own private copy of the content of the [sqlite3_mem_methods] structure
before the [sqlite3_config()] call returns.</dd>
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt> **
** <dd> ^(This option takes a single argument which is a pointer to an**
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]**
** structure is filled with the currently defined memory allocation routines.)^**
** This option can be used to overload the default memory allocation**
** routines with a wrapper that simulations memory allocation failure or**
** tracks memory usage, for example. </dd>**
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt> **
** <dd> ^This option takes single argument of type int, interpreted as a**
** boolean, which enables or disables the collection of memory allocation**
** statistics. ^When memory allocation statistics are disabled, the**
** following SQLite interfaces become non-operational:**
** <ul>**
** <li> [sqlite3_memory_used()]**
** <li> [sqlite3_memory_highwater()]**
** <li> [sqlite3_soft_heap_limit64()]**
** <li> [sqlite3_status()]**
** </ul>)^**
** ^Memory allocation statistics are enabled by default unless SQLite is**
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory**
** allocation statistics are disabled by default. </dd>**
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt> **
** <dd> ^This option specifies a static memory buffer that SQLite can use for**
** scratch memory. There are three arguments: A pointer an 8-byte**
** aligned memory buffer from which the scratch allocations will be**
** drawn, the size of each scratch allocation (sz),**
** and the maximum number of scratch allocations (N). The sz**
** argument must be a multiple of 16.**
** The first argument must be a pointer to an 8-byte aligned buffer**
** of at least sz*N bytes of memory.**
** ^SQLite will use no more than two scratch buffers per thread. So**
** N should be set to twice the expected maximum number of threads.**
** ^SQLite will never require a scratch buffer that is more than 6**
** times the database page size. ^If SQLite needs needs additional**
** scratch memory beyond what is provided by this configuration option, then**
** [sqlite3_malloc()] will be used to obtain the memory needed. </dd>**
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt> **
** <dd> ^This option specifies a static memory buffer that SQLite can use for**
** the database page cache with the default page cache implementation.**
** This configuration should not be used if an application-define page**
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.**
** There are three arguments to this option: A pointer to 8-byte aligned**
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.

** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.) ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
This option can be used to overload the default mutex allocation routines with a wrapper used to track mutex usage for performance profiling or testing, for example. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will return [SQLITE_ERROR].

This option takes two arguments that determine the default memory allocation for the lookaside memory allocator on each database connection. The first argument is the size of each lookaside buffer slot and the second is the number of slots allocated to each database connection. This option sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE] verb to [sqlite3_db_config()] can be used to change the lookaside configuration on individual connections.

This option takes a single argument which is a pointer to an [sqlite3_pcache_methods2] object. This object specifies the interface to a custom page cache implementation. SQLite makes a copy of the object and uses it for page cache memory allocations.

This option takes a single argument which is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of the current page cache implementation into that object.

The SQLITE_CONFIG_LOG option is used to configure the SQLite global [error log].

The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a function with a call signature of void(*)(void*,int,const char*), and a pointer to void. If the function pointer is not NULL, it is invoked by [sqlite3_log()] to process each logging event. If the function pointer is NULL, the [sqlite3_log()] interface becomes a no-op. The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. The second parameter to the logger function is a copy of the first parameter to the corresponding [sqlite3_log()] call and is intended to be a [result code] or an [extended result code]. The third parameter passed to the logger is the log message after formatting via [sqlite3_snprintf()].

In a multi-threaded application, the application-defined logger function must be threadsafe.
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
**  <dd> This option takes a single argument of type int. If non-zero, then
**  URI handling is globally enabled. If the parameter is zero, then URI handling
**  is globally disabled. If URI handling is globally enabled, all filenames
**  passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
**  specified as part of [ATTACH] commands are interpreted as URIs, regardless
**  of whether or not the [SQLITE_OPEN_URI] flag is set when the database
**  connection is opened. If it is globally disabled, filenames are
**  only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
**  database connection is opened. By default, URI handling is globally
**  disabled. The default value may be changed by compiling with the
**  [SQLITE_USE_URI] symbol defined.
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
**  <dd> This option takes a single integer argument which is interpreted as
**  a boolean in order to enable or disable the use of covering indices for
**  full table scans in the query optimizer. The default setting is determined
**  by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
**  if that compile-time option is omitted.
**  The ability to disable the use of covering indices for full table scans
**  is because some incorrectly coded legacy applications might malfunction
**  when the optimization is enabled. Providing the ability to
**  disable the optimization allows the older, buggy application code to work
**  without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
**  <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
**  <dd> These options are obsolete and should not be used by new code.
**  They are retained for backwards compatibility but are now no-ops.
**  </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
**  <dt>SQLITE_CONFIG_SQLLOG
**  <dd>This option is only available if sqlite is compiled with the
**  [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
**  be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
**  The second should be of type (void*). The callback is invoked by the library
**  in three separate circumstances, identified by the value passed as the
**  fourth parameter. If the fourth parameter is 0, then the database connection
**  passed as the second argument has just been opened. The third argument
**  points to a buffer containing the name of the main database file. If the
**  fourth parameter is 1, then the SQL statement that the third parameter
**  points to has just been executed. Or, if the fourth parameter is 2, then
**  the connection being passed as the second parameter is being closed. The
**  third parameter is passed NULL in this case. An example of using this
**  configuration option can be seen in the "test_sqllog.c" source file in
**  the canonical SQLite source tree."
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
##
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

# do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

        The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

        1. If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
        2. If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
        3. For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

        Please see example below:

        Parent's Settings:
        Minimum: 5000
        Increment: 1000

        Volume on Autohedge transaction|Volume Hedged
        1      - 24990
        2500 - 54995000
        5500 - 64996000);
        INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);
        INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', ‘<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

        Employee Name: Christopher F. Calger
        Status last changed by: Mollie E. Gustafson Ms
        Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com','gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com','Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e.carter@enron.com', 't.robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

)
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.
Regards
Delainey');

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.
Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com;','TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.

');
INSERT INTO email(from,[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_doc');
INSERT INTO email(from,[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle. ');
INSERT INTO email(from,[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '

Here is a goody for you');
INSERT INTO email(from,[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_id=2&category_name=WEST&toc_hide=1&TV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.);
INSERT INTO email(from,[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC  30.000 / Enron
');
INSERT INTO email(from,[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email(from,[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works. ');

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ',', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.
Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat
PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
   <Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
   <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

Thanks

------------ Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM -----------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.
New:
Scott Neal : East Northeast
Dick Jenkins: East Market east

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: ', 'i will try to line up a pig for you ');

INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T. Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760);

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', ", 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.);

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM  To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com','eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,' Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia
Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

Judy Townsend
10/9/2001 11:04 AM
To: Dan Junek/HOU/ECT, Chris Germany/HOU/ECT
cc: Judy Townsend/HOU/ECT, Columbia Distribution
Subject: Columbia Distribution’s Capacity Available for Release - Sum

')

')

')

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

---

- 2001Summer.doc
')

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net, ', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info,' '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,
Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com;', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are
stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference
(Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.
To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey);
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie
Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out..... 
ww.gorelieberman-2000.com/

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.
Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???,

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.
Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/
'RE': 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374
Relaint
Steve McGinn
713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start
Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary
schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final
Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
    Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
John);
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday,

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
   COMMIT;
} {}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
}

do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
}

do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
}

do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
}

do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'gas reminder'
  }
}

do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
  }
}
do_test fts3ac-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}
do_test fts3ac-4.3 {
excsq { 
  SELECT snippet(email) FROM email 
  WHERE email MATCH 'deal sheet potential reuse'
}
}

EOL-Accenture Deal<b>Sheet</b> asset base for potential reuse/b>/ licensing Contract negotiations

do_test fts3ac-4.4 {
excsq { 
  SELECT snippet(email,'<<<','>>>',' ') FROM email 
  WHERE email MATCH 'deal sheet potential reuse'
}

EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing Contract negotiations

do_test fts3ac-4.5 {
excsq { 
  SELECT snippet(email,'<<<','>>>',' ') FROM email 
  WHERE email MATCH 'first things'
}

Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now

PetE: <<<ancillary load davis>>> 3; No ancillary schedules awarded detected in Load schedule.

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together <b>Potential</b>...
LOG\b>...\b>}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@\b>enron\b>.\b>com\b>\b>...\b>31 Keystone Receipts
15 \b>Questar\b>\b> Pipeline
40 Rockies\b>...\b>}}

do_test fts3ac-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@\b>enron\b>.\b>com\b>\b>...\b>31 Keystone Receipts
15 \b>Questar\b>\b> Pipeline
40 Rockies\b>...\b>}}

#---------------------------------------------------------------
# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
  execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
  execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3}}

finish_test

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

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work) run the object code and to modify the work, including scripts to
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.964 libdb 5.3.21 19.el7

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/PojoCodecProvider.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/diagnostics/SLF4JLogger.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/CompressedHeader.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/diagnostics/SLF4JLogger.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/CompressedHeader.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/session/ServerSession.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/diagnostics/Logger.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/BigDecimalCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/BsonReaderMark.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/CommandMessage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/LegacyProtocol.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/SnappyCompressor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/ClusterClock.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/CommandProtocol.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/CompressedMessage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/Compressor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/OpCode.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/LegacyMessage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/internal/connection/NoOpSessionContext.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/ClientSessionBinding.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/ZlibCompressor.java

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  jar/com/mongodb/ReadConcernLevel.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/ReadConcern.java
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 * /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/WriteConcernHelper.java
 * /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/BsonTypeCodecMap.java
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  jar/org/bson/codecs/pojo/package-info.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoNodeIsRecoveringException.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoNotPrimaryException.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/TagSet.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/Tag.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoWriteException.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/CursorType.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/binding/AbstractReferenceCounted.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/DefaultAuthenticator.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoWriteConcernException.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/BaseFindAndModifyOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/event/ServerListenerAdapter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/AsyncChangeStreamBatchCursor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/ChangeStreamIterable.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/InstanceCreatorImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/codecs/AbstractGeometryCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/ChangeStreamIterableImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/PojoBuilderHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codecs/pojo/LazyPojoCodec.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/internal/event/CommandListenerMulticaster.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/InsertOneOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/gridfs/GridFSFindIterable.java
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  jar/com/mongodb/client/model/ValidationOptions.java
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jar/com/mongodb/internal/HexUtils.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/ValidationLevel.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoGridFSException.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/gridfs/GridFSBucket.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/gridfs/GridFSBuckets.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/ValidationAction.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java

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  jar/org/bson/util/AbstractCopyOnWriteMap.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/util/CopyOnWriteMap.java
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  jar/com/mongodb/operation/CurrentOpOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/operation/FsyncUnlockOperation.java
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  jar/com/mongodb/client/model/FindOneAndDeleteOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/DefaultConnectionPool.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/DeleteProtocol.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/operation/FindOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/BsonRegularExpression.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/UpdateProtocol.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/WriteProtocol.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/InsertProtocol.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/operation/ListCollectionsOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/QueryProtocol.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/BsonObjectId.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/RawBsonDocument.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/KillCursorsMessage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/ProtocolHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/operation/UserExistsOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/DefaultClusterFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/BsonJavaScriptWithScope.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/FindOneAndReplaceOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/connection/GetMoreProtocol.java
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  jar/com/mongodb/connection/ExponentiallyWeightedMovingAverage.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/UuidRepresentation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/codecs/UuidCodecProvider.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/org/bson/codecs/UuidCodecHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/CountOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/CountOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
  jar/com/mongodb/client/model/DeleteOneModel.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/internal/session/ClientSessionContext.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/internal/session/ServerSessionPool.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/session/ClientSessionOptions.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/DropIndexOptions.java
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  jar/com/mongodb/event/ServerListener.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/FindOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/DObjectId.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/Block.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/SocketChannelStream.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoServerException.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/AsynchronousSocketChannelStream.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codec/configuration/ProvidersCodecRegistry.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codec/DateCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/BulkWriteResult.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/util/ClassMapBasedObjectSerializer.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoCursorAdapter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoSocketClosedException.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/WriteModel.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codec/BsonDoubleCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/WriteRequest.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codec/BooleanCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/CommandOperationHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codec/BsonMinKeyCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/codec/BsonDocumentCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/MapReduceOutput.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/binding/ReferenceCounted.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/ReplyHeader.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/BsonDocument.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/BsonDocumentCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/BsonDocumentSnapshotCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/BsonModelIdCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/BsonTimestampCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/BsonTypeCodec.java
jar/com/mongodb/internal/validator/MappedFieldNameValidator.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/codecs/BsonInt64Codec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/codecs/CodeWithScopeCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/connection/ClusterableServer.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/types/Boolean.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/MongoBatchCursorAdapter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/binding/AsyncReadBinding.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/DBDecoderAdapter.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/connection/ServerMonitorFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/operation/CountOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/BsonElement.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/connection/ServerConnectionState.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/operation/BatchCursor.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/operation/ExplainHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/operation/AggregateOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/connection/InternalStreamConnectionFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/binding/ReadWriteBinding.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/connection/InternalStreamConnectionFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/codecs/DocumentCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/org/bson/types/Code.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/connection/InternalStreamConnectionFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/codecs/configuration/LazyCodec.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/WriteConcernException.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/MongoMappingCursor.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/io/Bits.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/package-info.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/event/ClusterClosedEvent.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/EmptyBSONCallback.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/ChangeEvent.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/DefaultClusterableServerFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/event/ClusterDescriptionChangedEvent.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/JsonToken.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/SocketStreamHelper.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/ClusterDescription.java
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 jar/com/mongodb/util/JSONCallback.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/event/ClusterOpeningEvent.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/DefaultServerMonitorFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoCredential.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/SingleServerCluster.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-
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 */
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/codecs/package-info.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/StreamFactoryFactory.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/bulk/Request.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/LineString.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/Position.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/GeoJsonObjectType.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/GeoJsonCodecProvider.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystemType.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/model/geojson/NamedCoordinateReferenceSystem.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/client/ListCollectionsIterable.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactoryFactory.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoDBCollectionImpl.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/MongoDatabaseImpl.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/CreateCollectionOperation.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/operation/DropIndexOperation.java
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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/com/mongodb/util/JSONSerializers.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1-jar/org/bson/json/JsonReader.java

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* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/DBCollectionRemoveOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/CollationCaseFirst.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/DBCollectionCountOptions.java
* /opt/cola/permits/1138241828_1614277462.3/0/mongo-java-driver-3-6-0-sources-1.jar/com/mongodb/client/model/DBCollectionDistinctOptions.java
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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``Copyright'' also means copyright-like laws that apply to other kinds
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A ``covered work'' means either the unmodified Program or a work based on the Program.

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The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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@endenumerate

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The work must carry prominent notices stating that it is released
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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
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@item
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@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

``
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a `copyright disclaimer' for the program, if
necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
@end c man end

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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* m4/ax_func_which_gethostbyname_r.m4

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.998 protobuf 1.26.0

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possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it
does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

This library is free software; you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as
published by the Free Software Foundation; either version 2.1 of the
License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.
A copy of the GNU Lesser General Public License 2.1 is available as /usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux distribution or on the World Wide Web at http://www.gnu.org/licenses/oldlicenses/lgpl-2.1.html. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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-- Nathan

---------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
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> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
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Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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> Sent: Monday, October 01, 2007 8:33 PM
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> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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> be using.
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
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> by me.
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> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
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> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
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> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

---------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtptr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 11cOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flopped
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO

Open Source Used In Secure Workload 3.6.1.1 14206
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:36 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd807f10010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2B4E1B71100CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd807f10010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
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Subject: Re: cracklib license
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To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-Originating-arrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21
> > -------- Forwarded message --------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alemc@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
> >
> > The license for my code in the Cracklib distribution is henceforth GPL.
>
> > Happy now? :-)
> >
> > -a

1.1001 netty-resolver 4.1.26.Final
1.1001.1 Available under license :

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* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.87/0/netty-resolver-4-1-26-final-sources-2-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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  jar/io/netty/resolver/RoundRobinInetAddressResolver.java
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  jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.87/0/netty-resolver-4-1-26-final-sources-2-
  jar/io/netty/resolver/HostsFileEntries.java
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jar/io/netty/resolver/SimpleNameResolver.java
* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.870/netty-resolver-4-1-26-final-sources-2-
jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.870/netty-resolver-4-1-26-final-sources-2-
jar/io/netty/resolver/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.870/netty-resolver-4-1-26-final-sources-2-
jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.870/netty-resolver-4-1-26-final-sources-2-
jar/io/netty/resolver/NoopAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.870/netty-resolver-4-1-26-final-sources-2-
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jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1078478310_1597306821.870/netty-resolver-4-1-26-final-sources-2-
jar/io/netty/resolver/AddressResolver.java
1.1002 go-password 0.1.2

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* /opt/cola/permits/1136416669_1613765826.59/0/jetty-continuation-9-2-15-v20160210-sources-1-jar/org/eclipse/jetty/continuation/FauxContinuation.java
* /opt/cola/permits/1136416669_1613765826.59/0/jetty-continuation-9-2-15-v20160210-sources-1-jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /opt/cola/permits/1136416669_1613765826.59/0/jetty-continuation-9-2-15-v20160210-sources-1-jar/org/eclipse/jetty/continuation/Continuation.java
* /opt/cola/permits/1136416669_1613765826.59/0/jetty-continuation-9-2-15-v20160210-sources-1-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java

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1.1004 libmspack 0.6-0.1.alpha.el6
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1.1005 rpm 4.11.3 17.el7

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1006 prettyscale 0.7.2-7.ph4

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3.1008 minitest 5.13.0
3.1008.1 Available under license:
No license file was found, but licenses were detected in source scan.

= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is *very* readable / understandable
compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishly human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

class Meme
  def i_can_has_cheezburger?
    "OHA!"
  end

  def will_it_blend?
    "YES!"
  end
end

=== Unit tests

Define your tests as methods beginning with +test_+.

require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHA!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end

  def test_that_will_be_skipped
    skip "test this later"
  end
end
end

=== Specs

require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end

describe "when asked about cheeseburgers" do
  it "must respond positively" do
    _(@meme.i_can_has_cheezburger?).must_equal "OHAI!"
  end
end

describe "when asked about blending possibilities" do
  it "won't say no" do
    _(@meme.will_it_blend?).wont_match /^no/i
  end
end

For matchers support check out:

  * https://github.com/wojtekmach/minitest-matchers
  * https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV['BENCH']
class TestMeme < Minitest::Benchmark
  #Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you’ll need to wrap your benchmarks in a conditional since the methods won’t be defined. In minitest 5, the describe name needs to match
describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end
end

outputs something like:

# Running benchmarks:

<table>
<thead>
<tr>
<th>TestBlah</th>
<th>100</th>
<th>1000</th>
<th>10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>bench_my_algorithm</td>
<td>0.006167</td>
<td>0.079279</td>
<td>0.786993</td>
</tr>
<tr>
<td>bench_other_algorithm</td>
<td>0.061679</td>
<td>0.792797</td>
<td>7.869932</td>
</tr>
</tbody>
</table>

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks


"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ".") + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
@meme = Minitest::Mock.new
@meme_asker = MemeAsker.new @meme
@meme.expect :will_it_blend?, :return_value

@meme_asker.ask "will it blend"

@meme.verify
end
end

==== Multi-threading and Mocks

Minitest mocks do not support multi-threading. If it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

def test_called_inside_thread
called = false
pr = Proc.new { called = true }
thread = Thread.new(&pr)
thread.join
assert called, "proc not called"
end

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

def test_stale_eh
obj_under_test = Something.new

refute obj_under_test.stale?

Time.stub :now, Time.at(0) do  # stub goes away once the block is done
  assert obj_under_test.stale?
end
end

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:
def obj_under_test.fake_method
...
end

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

................................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with +--help+:

% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help                       Display this help.
  -s, --seed SEED                  Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose                    Verbose. Show progress processing files.
  -n, --name PATTERN               Filter run on /regexp/ or string.
  -e, --exclude PATTERN            Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride                      Pride. Show your testing pride!
  -a, --autotest                   Connect to autotest server.

You can set up a rake task to run all your tests by adding this to your Rakefile:

require "rake/testtask"

Rake::TestTask.new(:test) do |t|
  t.libs << "test"
  t.libs << "lib"
  t.test_files = FileList["test/**/test_*.rb"]
end

task :default => :test
== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call +plugin_XXX_init+ during startup. The option processor will also try to call +plugin_XXX_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end
  
  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via <tt><</tt>.

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
class MyCI < AbstractReporter
  attr_accessor :results, :addr, :port

  def initialize options
    self.results = []
    self.addr = options[:myci_addr]
    self.port = options[:myci_port]
  end

  def record result
    self.results << result
  end

  def report
    CI.connect(addr, port).send_results self.results
  end
end

# code from above...
end

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
  def work
  end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    _(@worker).must_respond_to :work
  end
end

outputs a failure:

1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.
Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker with <tt>Minitest::Expectations</tt>. You can either do that in your setup at the instance level, like:

```ruby
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

```ruby
class Worker
  include ::Minitest::Expectations
end
```

```ruby
=== How to share code across test classes?

Use a module. That's exactly what they're for:

```ruby
module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end
```

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

```ruby
=== How to run code before a group of tests?

Use a constant with begin...end like this:
```
describe Blah do
  SETUP = begin
    # ... this runs once when describe Blah starts
  end
  # ...
end
This can be useful for expensive initializations or sharing state.
Remember, this is just ruby code, so you need to make sure this
technique and sharing state doesn't interfere with your tests.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt>)? If so,
in order to require minitest, you must first add the <tt>gem 'minitest'</tt> to your Gemfile and run +bundle+. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

Minitest requires {Hoe}[https://rubygems.org/gems/hoe].

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

--- expected
+++ actual
@@ -1,2 +1,3 @@
  # encoding: UTF-8
  -"Expected \w+ to not match "blah blah blah"."
"Expected /\w+/ to not match # encoding: UTF-8
"blah blah blah"."

To check your current encoding, run:

```ruby
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of '-Eutf-8'. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command).

Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

```ruby
=== Minitest's own tests require GNU (or similar) diff.
```

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_long
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
   Expected: "--- expected
   +++ actual
    @ @ -1 +1
    "hahahahahahahahahahahahahahahahahahahaha"
    Actual: "Expected: "hahahahahahahahahahahahahahahahahahahaha"
   "blahblahblahblahblahblahblahblahblahblahblah"

5) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
   Expected: "No visible difference in the Hash#inspect output.
   You should look at the implementation of #== on Hash or its members.
   {1=>#<Object:0xXXXXXX>}"
   Actual: "Expected: {1=>#<Object:0x0000003ba0470>}
   Actual: {1=>#<Object:0x0000003ba0448>}"

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU diffutils from http://gnuwin32.sourceforge.net/packages/diffutils.htm (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:
diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff,
which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and
Minitest::Spec expectations (e.g.
<tt>page.must_have_content("Title")</tt>).
color_pound_spec_reporter :: Test names print Ruby Object types in color with
your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.
E.g. <tt>it "requires JS driver", js: true do</tt> &
<tt>ruby test.rb --tag js</tt> runs tests tagged :js.
minispec-rails :: Minimal support to use Spec style in Rails 5+.
mini-apivore :: for swagger based automated API testing.
minitest-around :: Around block for minitest. An alternative to
setup/teardown dance.
minitest-assert_errors :: Adds Minitest assertions to test for errors raised
or not raised by Minitest itself.
minitest-autotest :: autotest is a continuous testing facility meant to
be used during development.
minitest-bacon :: minitest-bacon extends minitest with bacon-like
functionality.
minitest-bang :: Adds support for RSpec-style let! to immediately
invoke let statements before each test.
minitest-bisect :: Helps you isolate and debug random test failures.
minitest-blink1_reporter :: Display test results with a Blink1.
minitest-capistrano :: Assertions and expectations for testing
Capistrano recipes.
minitest-capybara :: Capybara matchers support for minitest unit and
spec.
minitest-chef-handler :: Run Minitest suites as Chef report handlers
minitest-ci :: CI reporter plugin for Minitest.
minitest-context :: Defines contexts for code reuse in Minitest
specs that share common expectations.
minitest-debugger :: Wraps assert so failed assertions drop into
the ruby debugger.
minitest-display :: Patches Minitest to allow for an easily
configurable output.
minitest-documentation :: Minimal documentation format inspired by rspec's.
minitest-doc_reporter :: Detailed output inspired by rspec's documentation
format.

minitest-emoji :: Print out emoji for your test passes, fails, and skips.

minitest-english :: Semantically symmetric aliases for assertions and expectations.

minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.

minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents.

minitest-firemock :: Makes your Minitest mocks more resilient.

minitest-focus :: Focus on one test at a time.

minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.

minitest-global_expectations :: Support minitest expectation methods for all objects

minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.

minitest-growl :: Test notifier for minitest via growl.

minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!

minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.

minitest-hooks :: Around and before_all/after_all/around_all hooks

minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs

minitest-implicit-subject :: Implicit declaration of the test subject.

minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.

minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.

minitest-junit :: JUnit-style XML reporter for minitest.

minitest-keyword :: Use Minitest assertions with keyword arguments.

minitest-libnotify :: Test notifier for minitest via libnotify.

minitest-line :: Run test at line number.

minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.

minitest-macruby :: Provides extensions to minitest for macruby UI testing.

minitest-matchers :: Adds support for RSpec-style matchers to minitest.

minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.

minitest-metadata :: Annotate tests with metadata (key-value).

minitest-mock_expectations :: Provides method call assertions for minitest.

minitest-mongoid :: Mongoid assertion matchers for Minitest.

minitest-must_not :: Provides must_not as an alias for wont in Minitest.

minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec subclasses
minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette management with Minitest::Spec and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
mutant-minitest :: Minitest integration for mutant.
pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 2.3+. No magic is involved. I hope.

== INSTALL:

    sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

    gem "minitest"  # ensures you"re using the gem, and not the built-in MT
    require "minitest/autorun"

    # ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but
don't install the gem contents in the gem path. This messes up
Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1155785538_1619045438.76/0/minitest-5-13-0-1-gem/data-tar-gz/README.rdoc
No license file was found, but licenses were detected in source scan.

# for more details.

Found in path(s):
* /opt/cola/permits/1155785538_1619045438.76/0/minitest-5-13-0-1-gem/data-tar-gz/lib/minitest/benchmark.rb

1.1009 cfssl 1.5.0

1.1009.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/META-INF/maven/io.helidon.config/helidon-config-yaml/pom.xml

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#

io.helidon.config.yaml.internal.YamlFileTypeDetector

Found in path(s):
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/META-INF/services/java.nio.file.spi.FileTypeDetector
1.1026 kmod 20 23.el7

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1.1037 httpplib 0.18.1

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1.1038 psych 2.2.2

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Metadata-Version: 1.1
Name: pathlib2
Version: 2.1.0
Summary: Object-oriented filesystem paths
Home-page: https://pypi.python.org/pypi/pathlib2/
Author: Matthias C. M. Troffaes
Author-email: matthias.troffaes@gmail.com
License: MIT
Download-URL: https://pypi.python.org/pypi/pathlib2/
Description: The `old pathlib <https://bitbucket.org/pitrou/pathlib>`_
module on bitbucket is in bugfix-only mode.
The goal of pathlib2 is to provide a backport of
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_
module which tracks the standard library module,
so all the newest features of the standard pathlib can be
used also on older Python versions.

Download
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Standalone releases are available on PyPI:
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Development
------------

The main development takes place in the Python standard library: see
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In particular, new features should be submitted to the
`Python bug tracker <http://bugs.python.org>`_.

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Documentation
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1.1051 kubernetes-klog 2.4.0

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1.1052 python-prettytable 0.7.2 1.el6.centos

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1.1053 netty-reactive-streams-http 2.0.0

1.1054 bouncy-castle 1.54

1.1055 jetty-servlets 9.2.24.v20180105

1.1056 api-ldap-extras-trigger 1.0.0-M20
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1.1057 build-link 2.6.15
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1.1060 unicorn-worker-killer 0.4.5

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1.1062 mock 3.0.5

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1.1063 jline-builtins 3.9.0

1.1064 colord 1.3.4 1.el7
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Ty Coon, President of Vice

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1.1067 jcmtturner-gokrb 7.3.0
1.1067.1 Available under license:

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```
cmd/krb5/iprop/iprop.x
```
```
cmd/krb5/iprop/iprop_hdr.h
```
```
cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
```
```
lib/libgss/g_dsp_status.c
```
```
lib/libgss/g_dup_name.c
```
```
lib/libgss/g_exp_sec_context.c
```
```
lib/libgss/g_export_name.c
```
```
lib/libgss/g_glue.c
```
```
lib/libgss/g_imp_name.c
```
```
lib/libgss/g_imp_sec_context.c
```
```
lib/libgss/g_init_sec_context.c
```
```
lib/libgss/g_initialize.c
```
```
lib/libgss/g_inquire_context.c
```
```
lib/libgss/g_inquire_cred.c
```
```
lib/libgss/g_inquire_names.c
```
```
lib/libgss/g_process_context.c
```
```
lib/libgss/g_rel_buffer.c
```
```
lib/libgss/g_rel_cred.c
```
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd pname_to_uid.c
uts/common/gssapi/include/gssapi_err Generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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library ‘Frob’ (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1069 pathlib 2.3.0

1.1069.1 Available under license:

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* /opt/cola/permits/1156185747_1619141763.44/0/pathlib2-2.3.0-tar-gz/pathlib2-2.3.0/LICENSE.rst

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Found in path(s):
* /opt/cola/permits/1156185747_1619141763.44/0/pathlib2-2.3.0-tar-gz/pathlib2-2.3.0/test_pathlib2_with_py2_unicode_literals.py
* /opt/cola/permits/1156185747_1619141763.44/0/pathlib2-2.3.0-tar-gz/pathlib2-2.3.0/test_pathlib2.py
* /opt/cola/permits/1156185747_1619141763.44/0/pathlib2-2.3.0-tar-gz/pathlib2-2.3.0/pathlib2.py
* /opt/cola/permits/1156185747_1619141763.44/0/pathlib2-2.3.0-tar-gz/pathlib2-2.3.0/setup.py

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: pathlib2
Version: 2.3.0
Summary: Object-oriented filesystem paths
Home-page: https://pypi.python.org/pypi/pathlib2/
Author: Matthias C. M. Troffaes
Author-email: matthias.troffaes@gmail.com
License: MIT
Download-URL: https://pypi.python.org/pypi/pathlib2/
Description: The `old pathlib <https://bitbucket.org/pitrou/pathlib>`_ module on bitbucket is in bugfix-only mode.
The goal of pathlib2 is to provide a backport of
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_
module which tracks the standard library module,
so all the newest features of the standard pathlib can be
used also on older Python versions.

Download
--------

Standalone releases are available on PyPI:
http://pypi.python.org/pypi/pathlib2/

Development
-----------

The main development takes place in the Python standard library: see
the `Python developer's guide <http://docs.python.org/devguide/>`_.
In particular, new features should be submitted to the
`Python bug tracker <http://bugs.python.org/>`_.

Open Source Used In Secure Workload 3.6.1.1 14706
Issues that occur in this backport, but that do not occur not in the standard Python pathlib module can be submitted on the `pathlib2 bug tracker <https://github.com/mcmtroffaes/pathlib2/issues>`_.

Documentation
-------------

Refer to the `standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_ documentation.

.. |travis| image:: https://travis-ci.org/mcmtroffaes/pathlib2.png?branch=develop
   :target: https://travis-ci.org/mcmtroffaes/pathlib2
   :alt: travis-ci

.. |appveyor| image:: https://ci.appveyor.com/api/projects/status/baddx3rpet2wyi2c?svg=true
   :target: https://ci.appveyor.com/project/mcmtroffaes/pathlib2
   :alt: appveyor

.. |codecov| image:: https://codecov.io/gh/mcmtroffaes/pathlib2/branch/develop/graph/badge.svg
   :target: https://codecov.io/gh/mcmtroffaes/pathlib2
   :alt: codecov

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: System :: Filesystems

Found in path(s):
* /opt/cola/permits/1156185747_1619141763.44/0/pathlib2-2-3-0-tar-gz/pathlib2-2.3.0/pathlib2.egg-info/PKG-INFO
* /opt/cola/permits/1156185747_1619141763.44/0/pathlib2-2-3-0-tar-gz/pathlib2-2.3.0/PKG-INFO
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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for
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That's all there is to it!
1.1073 diffutils 3.3 5.el7

1.1073.1 Available under license:

/* diff - compare files line by line


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*/

#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <error.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progsname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>
/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
    proper_name ("Paul Eggert"), \
    proper_name ("Mike Haertel"), \
    proper_name ("David Hayes"), \
    proper_name ("Richard Stallman"), \
    proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
# define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
    char *regexps;/* chars representing disjunction of the regexps */
    size_t len;/* chars used in 'regexps' */
    size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
    struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). */
    On POSIX hosts, this has no effect. */
    static bool binary;
#else
    enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =

/* Values for long options that do not have single-letter equivalents. */
enum {
  BINARY_OPTION = CHAR_MAX + 1,
  FROM_FILE_OPTION,
  HELP_OPTION,
  HORIZON_LINES_OPTION,
  IGNORE_FILE_NAME_CASE_OPTION,
  INHIBIT_HUNK_MERGE_OPTION,
  LEFT_COLUMN_OPTION,
  LINE_FORMAT_OPTION,
  NO_DEREFERENCE_OPTION,
  NO_IGNORE_FILE_NAME_CASE_OPTION,
  NORMAL_OPTION,
  SDIFF_MERGE_ASSIST_OPTION,
  STRIP_TRAILING_CR_OPTION,
  SUPPRESS_BLANK_EMPTY_OPTION,
  SUPPRESS_COMMON_LINES_OPTION,
  TABSIZE_OPTION,
  TO_FILE_OPTION,

  /* These options must be in sequence. */
  UNCHANGED_LINE_FORMAT_OPTION,
  OLD_LINE_FORMAT_OPTION,
  NEW_LINE_FORMAT_OPTION,

  /* These options must be in sequence. */
  UNCHANGED_GROUP_FORMAT_OPTION,
  OLD_GROUP_FORMAT_OPTION,
  NEW_GROUP_FORMAT_OPTION,
  CHANGED_GROUP_FORMAT_OPTION
};
static char const group_format_option[][]sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][]sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 'f'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},
    {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
    {"ifdef", 1, 0, 'D'},
    {"ignore-all-space", 0, 0, 'w'},
    {"ignore-blank-lines", 0, 0, 'B'},
    {"ignore-case", 0, 0, 'i'},
    {"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
    {"ignore-matching-lines", 1, 0, 'I'},
    {"ignore-space-change", 0, 0, 'b'},
    {"ignore-tab-expansion", 0, 0, 'E'},
    {"ignore-trailing-space", 0, 0, 'Z'},
    {"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
    {"initial-tab", 0, 0, 'T'},
    {"label", 1, 0, 'L'},
    {"left-column", 0, 0, LEFT_COLUMN_OPTION},
    {"line-format", 1, 0, LINE_FORMAT_OPTION},
    {"minimal", 0, 0, 'd'},
    {"new-file", 0, 0, 'N'},
    {"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
    {"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
"normal", 0, 0, NORMAL_OPTION},
"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
{"paginate", 0, 0, 'T'},
{"recursive", 0, 0, 'r'},
{"report-identical-files", 0, 0, 's'},
{"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
{"show-c-function", 0, 0, 'p'},
{"show-function-line", 1, 0, 'F'},
{"side-by-side", 0, 0, 'y'},
{"speed-large-files", 0, 0, 'H'},
{"starting-file", 1, 0, 'S'},
{"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
{"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
{"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
{"tabsize", 1, 0, TABSIZE_OPTION},
{"text", 0, 0, 'a'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'}],
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0}]
];

/* Return a string containing the command options with which diff was invoked.
Spaces appear between what were separate ARGV-elements.
There is a space at the beginning but none at the end.
If there were no options, the result is an empty string.

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT,
the length of that vector. */

static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
    size += 1 + shell_quote_length (optionvec[i]);
p = result = xmalloc (size);

for (i = 0; i < count; i++)
{
    *p++ = ' ';  
    p = shell_quote_copy (p, optionvec[i]);
}

*p = '\0';
return result;
}

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    int ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ()

/* Decode the options. */

while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
{
    case 0:
        break;

    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;

    case 'a':
        text = true;
        break;

    case 'b':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space = IGNORE_SPACE_CHANGE;
        break;

    case 'Z':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space |= IGNORE_TRAILING_SPACE;
        break;

    case 'B':
        ignore_blank_lines = true;
        break;

    case 'C':

case 'U':
{
    if (optarg)
    {
        numval = strtomax(optarg, &numend, 10);
        if (*numend)
            try_help("invalid context length \"%s\", optarg);
        if (LIN_MAX < numval)
            numval = LIN_MAX;
        else
            numval = 3;
    }
    else
        numval = 3;

    specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
    if (context < numval)
        context = numval;
    explicit_context = true;
}
break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%%=%cifndef %s\n%%<#endif /* ! %s */
            %cifdef %s\n%%>#endif /* %s */
            %c#ifndef %s\n%%<#else /* %s */
            %cifdef %s\n%%>#endif /* %s */
        ";
        char *b = xmalloc ((sizeof C_ifdef_group_formats
            + 7 * strlen (optarg) - 14 /* 7*"%s" */
            - 8 /* 5*"%c" + 3*"\n" */);
        sprintf (b, C_ifdef_group_formats,
            optarg, optarg, 0,
            optarg, optarg, 0,
            optarg, optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            specify_value (&group_format[i], b, "-D");
        b += strlen (b) + 1;
case 'c':
    specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
    Usually does not change the result.

    This currently has no effect. */
    break;

case 'H':
    speed_large_files = true;
    break;

case 'i':
    ignore_case = true;
    break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
    System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
#endif

break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]]\$\]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;
case 'T' :
    initial_tab = true;
    break;

case 'u' :
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v' :
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
            AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w' :
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x' :
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X' :
    if (add_exclude_file (add_exclude, excluded, optarg,
        exclude_options (), 'u'))
        pfatal_with_name (optarg);
    break;

case 'y' :
    specify_style (OUTPUT_SDIFF);
    break;

case 'W' :
    numval = stroumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s'", optarg);
    if (width != numval)
    {
        if (width)
            fatal ("conflicting width options");
        width = numval;
    }
    break;

case BINARY_OPTION:
#if O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length ""%s"", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize " "%s", optarg);
    if (tabsize != numval)
        {
            fatal ("conflicting tabsize options");
            tabsize = numval;
        }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
    case OLD_LINE_FORMAT_OPTION:
    case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c = UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
specify_style (OUTPUT_IFDEF);
c -= UNCHANGED_GROUP_FORMAT_OPTION;
specify_value (&group_format[c], optarg, group_format_option[c]);
break;

default:
try_help (NULL, NULL);
prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
if (show_c_function)
{
specify_style (OUTPUT_CONTEXT);
if (ocontext < 0)
    context = 3;
} else
    specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \\
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
} else
    /* See POSIX 1003.1-2001 for this format. */
time_format = "%a %b %e %T %Y";

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT \\
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext \\
        || (ocontext < context && ! explicit_context)))
    context = ocontext;
if (!tabsize)
tabsize = 8;
if (!width)
width = 130;
{
 /* Maximize first the half line width, and then the gutter width,
 according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
   a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
   b. If tabs are not expanded to spaces,
      a half line plus a gutter is an integral number of tabs,
      so that tabs in the right column line up. */

intmax_t t = expand_tabs ? 1 : tabsize;
intmax_t w = width;
intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
 shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
   for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
   line_format[i] = "%\n";
   if (!group_format[OLD])
group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
   if (!group_format[NEW])
group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
   if (!group_format[UNCHANGED])
group_format[UNCHANGED] = "=%";
   if (!group_format[CHANGED])
group_format[CHANGED] = concat (group_format[OLD],
group_format[NEW], "");
}
no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
(!*group_format[UNCHANGED]
 || (STREQ (group_format[UNCHANGED], "%=")
 && !*line_format[UNCHANGED]))
: (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
(brief & binary
 & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
 | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
fatal ("--from-file and --to-file both specified");
    else
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
        exit_status = status;
}
}
else
{
    if (to_file)
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
        exit_status = status;
}
else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
            try_help ("missing operand after ""%s"", argv[argc - 1]);
        else
            try_help ("extra operand ""%s"", argv[optind + 2]);
    }

    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
/* Print any messages that were saved up for last. */
print_message_queue();

check_stdout();
exit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;

        if (size <= newlen)
        {
            if (!size)
                size = 1;

            do size *= 2;
            while (size <= newlen);

            reglist->size = size;
            reglist->regexps = regexps = xrealloc (regexps, size);
        }
        if (multiple_regexps)
        {
            regexps[len++] = '\';
            regexps[len++] = '|';
        }
        memcpy (regexps + len, pattern, patlen + 1);
    }
}
/* Ensure that REGLIST represents the disjunction of its regexps.
This is done here, rather than earlier, to avoid O(N^2) behavior. */
static void
summarize_regexp_list (struct regexp_list *reglist)
{
if (reglist->regexps)
{
/* At least one regexp was specified. Allocate a fastmap for it. */
reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
if (reglist->multiple_regexps)
{
/* Compile the disjunction of the regexps.
(If just one regexp was specified, it is already compiled.) */
char const *m = re_compile_pattern (reglist->regexps, reglist->len,
reglist->buf);
if (m)
error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
}
}
}
static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
program_name);
abort ();
}
static void
check_stdout (void)
{
if (ferror (stdout))
fatal ("write failed");
else if (fclose (stdout) != 0)
pfatal_with_name (_("standard output"));
}
static char const * const option_help_msgid[] = {
N_(" --normal
output a normal diff (the default)"),
N_("-q, --brief
report only when files differ"),
N_("-s, --report-identical-files report when two files are the same"),
N_("-c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
N_("-u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
N_("-e, --ed
output an ed script"),

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N_("-n, --rcs                     output an RCS format diff"),
N_("-y, --side-by-side            output in two columns"),
N_("-W, --width=NUM               output at most NUM (default 130) print columns"),
N_(" --left-column                output only the left column of common lines"),
N_(" --suppress-common-lines    do not output common lines"),
",
N_("-p, --show-c-function        show which C function each change is in"),
N_("-F, --show-function-line=RE  show the most recent line matching RE"),
N_(" --label LABEL              use LABEL instead of file name\n"     
    (can be repeated")),
",
N_("-t, --expand-tabs            expand tabs to spaces in output"),
N_("-T, --initial-tab           make tabs line up by prepending a tab"),
N_(" --tabsize=NUM              tab stops every NUM (default 8) print columns"),
N_(" --suppress-blank-empty     suppress space or tab before empty output lines"),
N_("-l, --paginate              pass output through 'pr' to paginate it"),
",
N_("-r, --recursive              recursively compare any subdirectories found"),
N_("-N, --no-dereference        don't follow symbolic links"),
N_("-N, --new-file              treat absent files as empty"),
N_(" --unidirectional-new-file  treat absent first files as empty"),
N_(" --ignore-file-name-case    ignore case when comparing file names"),
N_(" --no-ignore-file-name-case   consider case when comparing file names"),
N_("-x, --exclude=PAT            exclude files that match PAT"),
N_("-X, --exclude-from=FILE      exclude files that match any pattern in FILE"),
N_("-S, --starting-file=FILE     start with FILE when comparing directories"),
N_(" --from-file=FILE1           compare FILE1 to all operands\n"     
    FILE1 can be a directory"),
N_(" --to-file=FILE2            compare all operands to FILE2\n"     
    FILE2 can be a directory"),
",
N_("-i, --ignore-case           ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion   ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change    ignore changes in the amount of white space"),
N_("-w, --ignore-all-space      ignore all white space"),
N_("-B, --ignore-blank-lines     ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
",
N_("-a, --text                    treat all files as text"),
N_(" --strip-trailing-cr          strip trailing carriage return on input"),
#if O_BINARY
N_(" --binary                     read and write data in binary mode"),
#endif
",
N_("-D, --ifdef=NAME             output merged file with '#ifdef NAME' diffs"),
N_(" --GTYPE-group-format=GFMT    format GTYPE input groups with GFMT"),
N_(" --line-format=LFMT            format all input lines with LFMT"),
N_("--LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_("These format options provide fine-grained control over the output
" of diff, generalizing -D/--ifdef.")
N_("LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'.")
N_("GFMT (only) may contain:
%< lines from FILE1\n
%> lines from FILE2\n
%= lines common to FILE1 and FILE2\n
%[-]WIDTH[.][PREC]{doxX}LETTER printf-style spec for LETTER\n
LETTERs are as follows for new group, lower case for old group:\n
F first line number\n
L last line number\n
N number of lines = L-F+1\n
E F-1\n
M L+1\n
%(A=B?T:E) if A equals B then T else E")
N_("LFMT (only) may contain:\n
%L contents of line\n
%l contents of line, excluding any trailing newline\n
%[-]WIDTH[.][PREC]{doxX}n printf-style spec for input line number")
N_("Both GFMT and LFMT may contain:\n
%\n
%c'C' the single character C\n
%c'\OOO' the character with octal code OOO\n
C the character C (other characters represent themselves)")

".
N_("-d, --minimal try hard to find a smaller set of changes")
N_("--horizon-lines=NUM keep NUM lines of the common prefix and suffix")
N_("--speed-large-files assume large files and many scattered small changes")

".
N_("--help display this help and exit")
N_("-v, --version output version information and exit")

"
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.")
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s).")
N_("If a FILE is '-', read standard input.")
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.")

0
}:

static void
usage (void)
{
char const * const *p;

printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
printf (_("%s\n", _("Compare FILES line by line.")));
fputs (_("\n Mandatory arguments to long options are mandatory for short options too.\n "), stdout);

for (p = option_helpmsgid; *p; p++)
{
    if (!*p)
        putchar ("\n");
    else
    {
        char const *msg = _(*p);
        char const *nl;
        while ((nl = strchr (msg, '\n')))
        {
            int msglen = nl + 1 - msg;
            printf ("  %.*s", msglen, msg);
            msg = nl + 1;
        }

        printf ("  %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
    }
}
emit_bug_reporting_address ();

/* Set VAR to VALUE, reporting an OPTION error if this is a conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
    if (*var && !STREQ (*var, value))
    {
        error (0, 0, _("conflicting %s option value '%s'"), option, value);
        try_help (NULL, NULL);
    }
    *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help ("conflicting output style options", NULL);
        output_style = style;
    }
}
/* Set the last-modified time of *ST to be the current time. */

static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
  gettime (&STAT_TIMESPEC (st, st_mtim));
#else
  struct timespec t;
  gettime (&t);
  st->st_mtime = t.tv_sec;
  #if defined STAT_TIMESPEC_NS
    STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
  #elif defined HAVE_STRUCT_STAT_ST_SPARE1
    st->st_spare1 = t.tv_nsec / 1000;
  #endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
   and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
  struct comparison cmp;
  #define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
  register int f;
  int status = EXIT_SUCCESS;
  bool same_files;
  char *free0;
  char *free1;

  /* If this is directory comparison, perhaps we have a file
     that exists only in one of the directories.
     If so, just print a message to that effect. */

  if (! (name0 && name1)
      || (unidirectional_new_file && name1)
new_file))
{
   char const *name = name0 ? name0 : name1;
   char const *dir = parent->file[!name0].name;

   /* See POSIX 1003.1-2001 for this format. */
   message ("Only in %s: %s\n", dir, name);

   /* Return EXIT_FAILURE so that diff_dirs will return
    * some files differ");
   return EXIT_FAILURE;
}

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
   name0 = name1;
if (!name1)
   name1 = name0;

if (!parent)
{
   free0 = NULL;
   free1 = NULL;
   cmp.file[0].name = name0;
   cmp.file[1].name = name1;
}
else
{
   cmp.file[0].name = free0
   = file_name_concat (parent->file[0].name, name0, NULL);
   cmp.file[1].name = free1
   = file_name_concat (parent->file[1].name, name1, NULL);
}
/ * Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].stat.st_size =
                            MAX (0, cmp.file[f].stat.st_size - pos);
                }
                /* POSIX 1003.1-2001 requires current time for
                  stdin. */
                set_mtime_to_now (&cmp.file[f].stat);
            }
        }
        else if ((no_dereference_symlinks
                ? lstat (cmp.file[f].name, &cmp.file[f].stat)
                : stat (cmp.file[f].name, &cmp.file[f].stat))
                != 0)
            cmp.file[f].desc = ERRNO_ENCODE (errno);
    }
    /* Mark files as nonexistent as needed for -N and -P, if they are
     inaccessible empty regular files (the kind of files that 'patch'
     creates to indicate nonexistent backups), or if they are
     top-level files that do not exist but their counterparts do
     exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && unidirectional_new_file))
        && cmp.file[f].desc == UNOPENED
            ? (S_ISREG (cmp.file[f].stat.st_mode)
                && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
                && cmp.file[f].stat.st_size == 0)
            : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
                || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
                && ! parent
                && (cmp.file[1 - f].desc == UNOPENED
                    || cmp.file[1 - f].desc == STDIN_FILENO))
        cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
        {
            memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
            cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
        }

for (f = 0; f < 2; f++)
    {
        int e = ERRNO_DECODE (cmp.file[f].desc);
        if (0 <= e)
            {
                errno = e;
                perror_with_name (cmp.file[f].name);
                status = EXIT_TROUBLE;
            }
    }

if (status == EXIT_SUCCESS && ! parent && ! DIR_P (0) != DIR_P (1))
    {
        /* If one is a directory, and it was specified in the command line,
           use the file in that dir with the other file's basename. */
        int fnm_arg = DIR_P (0);
        int dir_arg = 1 - fnm_arg;
        char const *fnm = cmp.file[fnm_arg].name;
        char const *dir = cmp.file[dir_arg].name;
        char const *filename = cmp.file[dir_arg].name = free0
            = find_dir_file_pathname (dir, last_component (fnm));

        if (STREQ (fnm, ":"))
            fatal ("cannot compare ":" to a directory");

        if (!no_dereference_symlinks)
            lstat (filename, &cmp.file[dir_arg].stat)
: stat (filename, &cmp.file[dir_arg].stat))
!= 0)
{
  perror_with_name (filename);
  status = EXIT_TROUBLE;
}
}

if (status != EXIT_SUCCESS)
{
  /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
  && cmp.file[1].desc == NONEXISTENT)
{
  /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
  = (cmp.file[0].desc != NONEXISTENT
    && cmp.file[1].desc != NONEXISTENT
    && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
    && same_file_attributes (&cmp.file[0].stat,
    &cmp.file[1].stat))
    && no_diff_means_no_output)
{
  /* The two named files are actually the same physical file.
  We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
  if (output_style == OUTPUT_IFDEF)
    fatal ("-D option not supported with directories");

  /* If both are directories, compare the files in them. */

  if (parent && !recursive)
  {
    /* But don't compare dir contents one level down
       unless -r was specified.
       See POSIX 1003.1-2001 for this format. */
    message ("Common subdirectories: %s and %s\n", cmp.file[0].name, cmp.file[1].name);
  }
  else
    status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
  || (parent

---

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&& !((S_ISREG (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[0].stat.st_mode))
&& (S_ISREG (cmp.file[1].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
    {
        /* We have a subdirectory that exists only in one directory. */

        if ((DIR_P (0) | DIR_P (1))
            && recursive
            && (new_file
                && (unidirectional_new_file
                    && cmp.file[0].desc == NONEXISTENT)))
            status = diff_dirs (&cmp, compare_files);
        else
            {
                char const *dir;

                /* PARENT must be non-NULL here. */
                assert (parent);
                dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

                /* See POSIX 1003.1-2001 for this format. */
                message5 ("Only in %s: %s\n", dir, name0);

                status = EXIT_FAILURE;
            }
        
        else
        {
            /* We have two files that are not to be compared. */

            /* See POSIX 1003.1-2001 for this format. */
            message5 ("File %s is a %s while file %s is a %s\n", 
                file_label[0] ? file_label[0] : cmp.file[0].name, 
                file_type (&cmp.file[0].stat), 
                file_type (&cmp.file[1].stat));

            /* This is a difference. */
            status = EXIT_FAILURE;
        }
    }
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
        || S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode)
    && S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* Compare the values of the symbolic links. */
    char *link_value[2] = { NULL, NULL };

    for (f = 0; f < 2; f++)
    {
        link_value[f] = xreadlink (cmp.file[f].name);
        if (link_value[f] == NULL)
        {
            perror_with_name (cmp.file[f].name);
            status = EXIT_TROUBLE;
            break;
        }
    }
    if (status == EXIT_SUCCESS)
    {
        if ( ! STREQ (link_value[0], link_value[1]))
        {
            message ("Symbolic links %s and %s differ\n", cmp.file[0].name, cmp.file[1].name);
            /* This is a difference. */
            status = EXIT_FAILURE;
        }
    }
    for (f = 0; f < 2; f++)
        free (link_value[f]);
}
else
{
    /* We have two files that are not to be compared, because
     one of them is a symbolic link and the other one is not. */

    message5 ("File %s is a %s while file %s is a %s\n", file_label[0] ? file_label[0] : cmp.file[0].name,
                file_type (&cmp.file[0].stat),
                file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
    && S_ISREG (cmp.file[0].stat.st_mode)
&& S_ISREG (cmp.file[1].stat.st_mode)
&& cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n", 
        file_label[0] ? file_label[0] : cmp.file[0].name, 
    status = EXIT_FAILURE;
}
else {
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
    if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (cmp.file[1].desc == UNOPENED)
    {
        if (same_files)
            cmp.file[1].desc = cmp.file[0].desc;
        else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
        {
            perror_with_name (cmp.file[1].name);
            status = EXIT_TROUBLE;
        }
    }

    /* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
    status = diff_2_files (&cmp);

    /* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc 
        && close (cmp.file[1].desc) != 0)
    {

perror_with_name (cmp.file[1].name);
status = EXIT_TROUBLE;
}
}

/* Now the comparison has been done, if no error prevented it,
   and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
        message ("Files %s and %s are identical\n", file_label[0] ? file_label[0] : cmp.file[0].name,
}
else
{
    /* Flush stdout so that the user sees differences immediately.
       This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
        pfatal_with_name (_("standard output"));
}

free (free0);
free (free1);

return status;

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1]) by localhost (Postfix) with ESMTP id B8C814E4F for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1]) by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024) with LMTP id 05987-03 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
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X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
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Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXNlIGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
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using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
> Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.1085 nxadm-tail 1.4.5
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1.1086 reactive-streams 1.0.0

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1.1089 numexpr 2.6.4

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1.1090 hadoop 2.2.0

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1.1092 libuser 0.56.13 5.el6

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The End

1.1096 gtk 2.24.32

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sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.1102 minitest 5.10.1
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   = minitest/[test,spec,mock,benchmark]

home :: https://github.com/seattlerb/minitest
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vim  :: https://github.com/sunaku/vim-ruby-minitest
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== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

    I MUST say that minitest is *very* readable / understandable
    compared to the 'other two' options we looked at. Nicely done and
    thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework.
It provides a rich set of assertions to make your tests clean and
readable.

minitest/spec is a functionally complete spec engine. It hooks onto
minitest/test and seamlessly bridges test assertions over to spec
expectations.

minitest/benchmark is an awesome way to assert the performance of your
algorithms in a repeatable manner. Now you can assert that your newb
co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactoring still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end

### Unit tests

Define your tests as methods beginning with `test_`.

```ruby
require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end

  def test_that_will_be_skipped
    skip "test this later"
  end
end
```

### Specs

```ruby
require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end

  describe "when asked about cheeseburgers" do
    it "must respond positively" do
      @meme.i_can_has_cheezburger?.must_equal "OHAI!"
    end
  end
end
```
describe "when asked about blending possibilities" do
  it "won't say no" do
    @meme.will_it_blend?.wont_match /no/i
  end
end

For matchers support check out:

https://github.com/wojtekmach/minitest-matchers
https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV['BENCH']

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV['BENCH'] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end

outputs something like:

# Running benchmarks:

# Running benchmarks:
TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ") + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value
      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end

**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's
an example of asserting that code inside a thread is run:

def test_called_inside_thread
called = false
pr = Proc.new { called = true }
thread = Thread.new(&pr)
thread.join
assert called, "proc not called"
end

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest’s stub method overrides a single method for the duration of the block.

def test_stale_eh
obj_under_test = Something.new

refute obj_under_test.stale?

Time.stub :now, Time.at(0) do  # stub goes away once the block is done
assert obj_under_test.stale?
end
end

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existant method:

def obj_under_test.fake_method
...
end

=== Running Your Tests

Ideally, you’ll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don’t have to:

  % ruby -Ilib:test test/minitest/test_minitest_test.rb
  Run options: --seed 37685

  # Running:
There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run +--help+:

% ruby -Ilib:test test/minitest/test_minitest_test.rb --help

minitest options:
- -h, --help Display this help.
- -s, --seed SEED Sets random seed
- -v, --verbose Verbose. Show progress processing files.
- -n, --name PATTERN Filter run on /pattern/ or string.
- -e, --exclude PATTERN Exclude /regexp/ or string from run.

Known extensions: pride, autotest
- -p, --pride Pride. Show your testing pride!
- -a, --autotest Connect to autotest server.

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call +plugin_XXX_init+ during startup. The option processor will also try to call +plugin_XXX_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end
=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via <tt><</tt>.

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

```ruby
# minitest/bogus_plugin.rb

module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end

    def record result
      self.results << result
    end

    def report
      CI.connect(addr, port).send_results self.results
    end
  end
end
```

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:
class Worker < SimpleDelegator
  def work
  end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end

outputs a failure:

  1) Failure:
     Worker#test_0001_must respond to work [bug11.rb:16]:
     Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker with <tt>Minitest::Expectations</tt>. You can either do that in your setup at the instance level, like:

  before do
    @worker = Worker.new(Object.new)
    @worker.extend Minitest::Expectations
  end

or you can extend the Worker class (within the test file!), like:

  class Worker
    include ::Minitest::Expectations
  end

=== How to share code across test classes?

Use a module. That's exactly what they're for:

  module UsefulStuff
    def useful_method

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end

Remember, +describe+ simply creates test classes. It's just ruby at
the end of the day and all your normal Good Ruby Rules (tm) apply. If
you want to extend your test using setup/teardown via a module, just
make sure you ALWAYS call super. before/after automatically call super
for you, so make sure you don't do it twice.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt> )? If so,
in order to require minitest, you must first add the <tt>gem 'minitest'</tt> to
your Gemfile and run +bundle+. Once it's installed, you should be
able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Known Extensions:

capybara_minitest_spec   :: Bridge between Capybara RSpec matchers and
                          Minitest::Spec expectations (e.g.
                          <tt>page.must_have_content("Title")</tt>.
color_pound_spec_reporter :: Test names print Ruby Object types in color with
                          your Minitest Spec style tests.
minispec-metadata   :: Metadata for describe/it blocks & CLI tag filter.
                      E.g. <tt>it "requires JS driver", js: true do</tt> &
                      <tt>ruby test.rb --tag js</tt> runs tests tagged :js.
minitest-around      :: Around block for minitest. An alternative to
                      setup/teardown dance.
minitest-assert_errors :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.
minitest-autotest :: autotest is a continuous testing facility meant to be used during development.
minitest-bacon :: minitest-bacon extends minitest with bacon-like functionality.
minitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.
minitest-bisect :: Helps you isolate and debug random test failures.
minitest-blink1_reporter :: Display test results with a Blink1.
minitest-capistrano :: Assertions and expectations for testing Capistrano recipes.
minitest-capybara :: Capybara matchers support for minitest unit and spec.
minitest-chef-handler :: Run Minitest suites as Chef report handlers
minitest-ci :: CI reporter plugin for Minitest.
minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.
minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.
minitest-display :: Patches Minitest to allow for an easily configurable output.
minitest-documentation :: Minimal documentation format inspired by rspec's.
minitest-doc_reporter :: Detailed output inspired by rspec's documentation format.
minitest-emoji :: Print out emoji for your test passes, fails, and skips.
minitest-english :: Semantically symmetric aliases for assertions and expectations.
minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.
minitest-fail-fast :: Reimplements RSpec's "fail fast" feature
minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.
minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents.
minitest-firemock :: Makes your Minitest mocks more resilient.
minitest-focus :: Focus on one test at a time.
minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.
minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.
minitest-growl :: Test notifier for minitest via growl.
minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!
minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.
minitest-hooks :: Around and before_all/after_all/around_all hooks
minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs
minitest-implicit-subject :: Implicit declaration of the test subject.
minitest-instrument :: Instrument ActiveSupport::Notifications when
test method is executed.
minitest-instrument-db :: Store information about speed of test execution
provided by minitest-instrument in database.
minitest-junit :: JUnit-style XML reporter for minitest.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages.
Supports Logger and Log4r::Logger.
minitest-macruby :: Provides extensions to minitest for macruby UI
testing.
minitest-matchers :: Adds support for RSpec-style matchers to
minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec,
but without any expectation infections.
minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in
Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup
with your minitest process, allowing your test
run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and
testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec
subclasses
minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for
Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad
idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to
Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g.
expect(sequences).to_include :celery_man).
minitest-spec-magic  :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails  :: Drop in Minitest::Spec superclass for
   ActiveSupport::TestCase.
minitest-sprint      :: Runs (Get it? It's fast!) your tests and makes
   it easier to rerun individual failures.
minitest-stately     :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class
   for the duration of a block.
minitest-stub-const   :: Stub constants for the duration of a block.
minitest-tags         :: Add tags for minitest.
minitest-unordered    :: Adds a new assertion to minitest for checking the
   contents of a collection, ignoring element order.
minitest-vcr          :: Automatic cassette managment with Minitest::Spec
   and VCR.
minitest_owrapper     :: Get tests results as a TestResult object.
minitest_should       :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim      :: Bridges between test/unit and minitest.
mongoid-minitest      :: Minitest matchers for Mongoid.
pry-rescue            :: A pry plugin w/ minitest support. See
   pry-rescue/minitest.rb.
rspec2minitest        :: Easily translate any RSpec matchers to Minitest
   assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods

== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

```bash
sudo gem install minitest
```

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

```bash
gem "minitest"  # ensures you're using the gem, and not the built-in MT require "minitest/autorun"

# ... usual testing stuffs ...
```

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1156126823_1619132976.11/0/seattlerb-minitest-v5-10-1-0-g46eb329-tar-gz/seattlerb-minitest-46eb329/README.rdoc

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# more details.

Found in path(s):
* /opt/cola/permits/1156126823_1619132976.11/0/seattlerb-minitest-v5-10-1-0-g46eb329-tar-gz/seattlerb-minitest-46eb329/lib/minitest/benchmark.rb

1.1103 prawn 2.4.0

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# ===============
#
# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
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#
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#
# Release     Derived     Year        Owner       GPL-
# from                                compatible? (1)
# # 0.9.0 thru 1.2 1991-1995 CWI yes
# 1.3 thru 1.5.2 1.2 1995-1999 CNRI yes
# 1.6          1.5.2 2000 CNRI no
# 2.0          1.6 2000 BeOpen.com no
# 1.6.1        1.6 2001 CNRI yes (2)
# 2.1          2.0+1.6.1 2001 PSF no
# 2.0.1        2.0+1.6.1 2001 PSF yes
# 2.1.1        2.1+2.0.1 2001 PSF yes
# 2.2          2.1.1 2001 PSF yes
# 2.1.2        2.1.1 2002 PSF yes
# 2.1.3        2.1.2 2002 PSF yes
# 2.2.1        2.2 2002 PSF yes
# 2.2.2        2.2.1 2002 PSF yes
# 2.2.3        2.2.2 2003 PSF yes
# 2.3          2.2.2 2002-2003 PSF yes
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# 2.3.3        2.3.2 2002-2003 PSF yes
# 2.3.4        2.3.3 2004 PSF yes
# 2.3.5        2.3.4 2005 PSF yes
# 2.4          2.3 2004 PSF yes
# 2.4.1        2.4 2005 PSF yes
# 2.4.2        2.4.1 2005 PSF yes
# 2.4.3        2.4.2 2006 PSF yes
# 2.4.4        2.4.3 2006 PSF yes
# 2.5          2.4 2006 PSF yes
# 2.5.1        2.5 2007 PSF yes
# 2.5.2        2.5.1 2008 PSF yes
# 2.5.3        2.5.2 2008 PSF yes
# 2.6          2.5 2008 PSF yes
# 2.6.1        2.6 2008 PSF yes
# 2.6.2        2.6.1 2009 PSF yes
# 2.6.3        2.6.2 2009 PSF yes
# 2.6.4        2.6.3 2009 PSF yes
# 2.6.5        2.6.4 2010 PSF yes
# 2.7          2.6 2010 PSF yes
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# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Assorted

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ParaNamer Core 2.3
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1.1111 ical4j 1.0.2

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The End
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1.1114 dry-types 1.5.1

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1.1115 multipart-post 2.0.0

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```ruby
## multipart-post

* http://github.com/nicksieger/multipart-post

![build status](https://travis-ci.org/nicksieger/multipart-post.png)

#### DESCRIPTION:

Adds a streamy multipart form post capability to Net::HTTP. Also supports other methods besides POST.

#### FEATURES/PROBLEMS:
```
* Appears to actually work. A good feature to have.
* Encapsulates posting of file/binary parts and name/value parameter parts, similar to most browsers' file upload forms.
* Provides an UploadIO helper class to prepare IO objects for inclusion in the params hash of the multipart post object.

#### SYNOPSIS:

```ruby
require 'net/http/post/multipart'

url = URI.parse('http://www.example.com/upload')
File.open("./image.jpg") do |jpg|
  req = Net::HTTP::Post::Multipart.new url.path,
    "file" => UploadIO.new(jpg, "image/jpeg", "image.jpg")
  res = Net::HTTP.start(url.host, url.port) do |http|
    http.request(req)
  end
end
```

To post multiple files or attachments, simply include multiple parameters with UploadIO values:

```ruby
require 'net/http/post/multipart'

url = URI.parse('http://www.example.com/upload')
req = Net::HTTP::Post::Multipart.new url.path,
  "file1" => UploadIO.new(File.new("./image.jpg"), "image/jpeg", "image.jpg"),
  "file2" => UploadIO.new(File.new("./image2.jpg"), "image/jpeg", "image2.jpg")
res = Net::HTTP.start(url.host, url.port) do |http|
  http.request(req)
end
```

#### REQUIREMENTS:

None

#### INSTALL:

```
gem install multipart-post
```

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1.1117 perl-file-checktree 4.42 3.el7

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1.1119 spdylay 1.4.0

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.
* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.1125 bson 3.6.0

1.1125.1 Available under license:

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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/diagnostics/SLF4JLogger.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonId.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/FloatCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BigDecimalCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/AbstractBsonReader.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonBinaryReader.java

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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonDocumentWriter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonWriter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/AbstractBsonWriter.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/package-info.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/CodecCache.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/configuration/Optional.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonInt32Converter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonBooleanConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonJavaScriptConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ShellTimestampConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/StrictJsonWriterSettings.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/StrictJsonWriter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JacksonJsonWriter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonInt32Converter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/JsonNullConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ExtendedJsonInt32Converter.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ShellRegularExpressionConverter.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/json/ExtendedJsonDecimal128Converter.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codescs/IterableCodec.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/Convention.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyModelBuilder.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/TypeParameterMap.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/LazyPojoCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyMetadata.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyModel.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/CreatorExecutable.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/AutomaticPojoCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyAccessors.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/CreatorExecutable.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PojoBuilderHelper.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/NumberCodecHelper.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/PropertyAccessorsImpl.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/ConventionAnnotationsImpl.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/ClassModel.java

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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonJavaScriptWithScope.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonSymbol.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonMinKey.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonNull.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonBoolean.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonObjectId.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonRegularExpression.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/BsonDateTime.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/ByteBufNIO.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/ByteBuf.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/ByteBufNIO.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/ByteBufNIO.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/ByteBuf.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/Timestamp.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/Timestamp.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/Array.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/Array.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/ArrayOfDocument.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/ArrayOfDocument.java
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* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
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* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/ObjectIdCodec.java
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* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonMinKeyCodec.java
* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/MaxKeyCodec.java
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* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonMaxKeyCodec.java
* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonMinKeyCodec.java
* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonRegularExpressionCodec.java
* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonMinMaxKeyCodec.java
* /opt/cola/permits/1137987622_16141911194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/BsonMinMaxKeyCodec.java
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  jar/org/bson/codecs/AtomicBooleanCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/codecs/CharacterCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-jar/org/bson/conversions/Bson.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-
  jar/org/bson/codecs/AtomicIntegerCodec.java
* /opt/cola/permits/1137987622_1614191194.59/0/bson-3-6-0-sources-1-
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// Original can be found at:
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// Modifications by Joshua Bell inexorabletash@gmail.com
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// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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{
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            "openssl/ssl/d1_lib.c",
            "openssl/ssl/d1_msg.c",
            "openssl/ssl/d1_srtp.c",
            "openssl/ssl/methods.c",
            "openssl/ssl/pqueue.c",
            "openssl/ssl/record/dtls1_bitmap.c",
            "openssl/ssl/record/rec_layer_d1.c",
            "openssl/ssl/record/rec_layer_s3.c",
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Open Source Used In Secure Workload 3.6.1.1 15292
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Open Source Used In Secure Workload 3.6.1.1  15294
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Open Source Used In Secure Workload 3.6.1.1 15297
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Open Source Used In Secure Workload 3.6.1.1 15298
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Open Source Used In Secure Workload 3.6.1.1 15299
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'include_dirs': [
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'./crypto',
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### Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npm.com/getting-started/what-is-npm):

```bash
npm install spdx-license-ids
```

### [Node.js](https://nodejs.org/) API

#### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

#### require('spdx-license-ids/deprecated')

Type: `Array<string>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
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'openssl/crypto/dso/dso_win32.c',
'openssl/crypto/ec/cbc.c',
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'openssl/crypto/evp/bio_cnc.c',
'openssl/crypto/evp/bio_md.c',

Open Source Used In Secure Workload 3.6.1.1  15415
openssl/crypto/ssh/sha512.c,
openssl/crypto/srp/srp_lib.c,
openssl/crypto/srp/srp_vfy.c,
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openssl/crypto/x509v3/v3err.c,
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openssl/engines/e_padlock.c,

openssl_sources_BSD-x86_64: [
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  './config/archs/BSD-x86_64/asm/crypto/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aesni-sha1-x86_64.s',
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  './config/archs/BSD-x86_64/asm/crypto/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/cvmc-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/cvmc-sse2-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/cvmc-sse4-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/cvmc-x86_64.s',
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  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
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  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/whirlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
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  'NDEBUG',
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  'OPENSSL_PIC',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
]
'SHA512_ASM',
'RC4_ASM',
'MD5_ASM',
'AES_ASM',
'VPAES_ASM',
'BSAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'PADLOCK_ASM',
'POLY1305_ASM',
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' ./crypto',
' ./crypto/include/internal',
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'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)]',
}
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:
```
var assert = require('assert);
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  });
```

SPDX expressions are valid, too ...

```
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```

... except if they contain 'LicenseRef':

```
var warningAboutLicenseRef = {
  validForOldPackages: false,
```
validForNewPackages: false,
spdx: true,
warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>".',
]
};

assert.deepEqual(
    valid('LicenseRef-Made-Up'),
    warningAboutLicenseRef
);

assert.deepEqual(
    valid('(MIT OR LicenseRef-Made-Up)'),
    warningAboutLicenseRef
);

```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package
and point users there:

```javascript
assert.deepEqual(
    valid('SEE LICENSE IN LICENSE.txt'),
    {
        validForNewPackages: true,
        validForOldPackages: true,
        inFile: 'LICENSE.txt'
    }
);
```

assert.deepEqual(
    valid('SEE LICENSE IN license.md'),
    {
        validForNewPackages: true,
        validForOldPackages: true,
        inFile: 'license.md'
    }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
```
validForNewPackages: true,
validForOldPackages: true,
unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);

```
1.1136 python-pip 7.1.0-2.el6
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

======

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- i18n support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja’s philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

```
$ pip install -U Jinja2
```


In A Nutshell
-------------

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
import io
import re
from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={

    })
"Documentation": "https://jinja.palletsprojects.com/",
"Code": "https://github.com/pallets/jinja",
"Issue tracker": "https://github.com/pallets/jinja/issues",
},
license="BSD-3-Clause",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="A very fast and expressive template engine.",
long_description=readme,
classifiers=[
  "Development Status :: 5 - Production/Stable",
  "Environment :: Web Environment",
  "Intended Audience :: Developers",
  "License :: OSI Approved :: BSD License",
  "Operating System :: OS Independent",
  "Programming Language :: Python",
  "Programming Language :: Python :: 2",
  "Programming Language :: Python :: 2.7",
  "Programming Language :: Python :: 3",
  "Programming Language :: Python :: 3.5",
  "Programming Language :: Python :: 3.6",
  "Programming Language :: Python :: 3.7",
  "Programming Language :: Python :: 3.8",
  "Programming Language :: Python :: Implementation :: CPython",
  "Programming Language :: Python :: Implementation :: PyPy",
  "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
  "Topic :: Software Development :: Libraries :: Python Modules",
  "Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},

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1.1151 openssh 6.6.1p1 22.el7
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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SOpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        
        formatter.Context{Format: "{{InvalidFunction}}"},
        "Template parsing error: template: :1: function "InvalidFunction" not defined
        
        formatter.Context{Format: "{{nil}}"},
        "Template parsing error: template: :1:2: executing " at <nil>: nil is not a command
        
        // Table format
        
        
        "NUM"  "OWNER"  "PRODUCT ID"  "EXPIRES"  "PRICING COMPONENTS"
        1  owner1  productid1  2020-01-01 10:00:00 +0000 UTC  compstring
        2  owner2  productid2  2020-01-01 10:00:00 +0000 UTC  compstring
        
        
        1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
        2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
        
        formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)-json
        
        "OWNER"
        owner1
        owner2
        
    }
}


formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
  `OWNER
owner1
owner2
`,
},
// Raw Format
{
  `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring`
`,
},
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
  `license: id1
license: id2
`,
},
// Custom Format
{
  formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
  `owner1
owner2`
},
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID:   "id1",
        Name:  "name1",
        ProductID: "productid1",
        Expires:  &expiration,
        }}
    }
}
PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
        Name:  "nodes",
        Value: 10,
    },
},
ComponentsString: "compstring",
}
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
    ID:        "id2",
    Name:      "name2",
    ProductID: "productid2",
    Expires:   &expiration,
    PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
            Name:  "nodes",
            Value: 20,
        },
    },
    ComponentsString: "compstring",
}
out := &bytes.Buffer{ }
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := [...]licenseutils.LicenseDisplay{
    {
        Num:   1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID:        "id1",
            Name:      "name1",
            ProductID: "productid1",
        },
    },
Expires: &expiration,
PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
        Name:  "nodes",
        Value: 10,
    },
},
},
},
ComponentsString: "compstring",
},

{  
    Num:  2,
    Owner: "owner2",
    Subscription: model.Subscription{
        ID:        "id2",
        Name:      "name2",
        ProductID: "productid2",
        Expires:   &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name:  "nodes",
                Value: 20,
            },
        },
    },
    ComponentsString: "compstring",
},

expectedJSONs := []map[string]interface{}{

    "Owner":            "owner1",
    "ComponentsString": "compstring",
    "Expires":          "2020-01-01T10:00:00Z",
    "DockerID":         "",
    "Eusa":             nil,
    "ID":               "id1",
    "Start":            nil,
    "Name":             "name1",
    "Num":              float64(1),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name":  "nodes",
            "value": float64(10),
        },
    },
    "ProductID":        "productid1",
    "ProductRatePlan":  "",
    "ProductRatePlanID": "",
}
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
 "Owner": "owner2",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": "",
 "Eusa": nil,
 "ID": "id2",
 "Start": nil,
 "Name": "name2",
 "Num": float64(2),
 "PricingComponents": []interface{}{
 map[string]interface{}{
 "name": "nodes",
 "value": float64(20),
 },
 },
 "ProductID": "productid2",
 "ProductRatePlan": "",
 "ProductRatePlanID": "",
 "State": "",
 "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

out := &bytes.Buffer{
 err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
 if err != nil {
 t.Fatal(err)
 }
 for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var m map[string]interface{}
 if err := json.Unmarshal([]byte(line), &m); err != nil {
 t.Fatal(err)
 }
 assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
 }

 func TestSubscriptionContextWriteJSONField(t *testing.T) {
 subscriptions := []licenseutils.LicenseDisplay{
 {Num: 1, Owner: "owner1"},
 {Num: 2, Owner: "owner2"},
 }
 out := &bytes.Buffer{
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}

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package licensing

import (  "context"  "crypto/hmac"  "crypto/sha256"  "encoding/base64"  "encoding/json"  "testing"  "time"
)
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)
    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }
    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }
    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }
    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }
    //
keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {

h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
/json blob.

```go
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"
    Token       string    `json:"token"
    MaxEngines  int       `json:"maxEngines"
    ScanningEnabled bool    `json:"scanningEnabled"
    Type        string    `json:"licenseType"
    Tier        string    `json:"tier"
}
```

```go
// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
}
```

```go
// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}
```

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```go
package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

cost (defaultSubscriptionsTableFormat = "table"
numHeader = "NUM"
ownerHeader = "OWNER"
licenseNameHeader = "NAME"
idHeader = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        } else {
            return defaultSubscriptionsTableFormat
        }
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        } else {
            return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
        }
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
    }
    licenseCtx.Header = map[string]string{
    }
"Num": numHeader,
"Owner": ownerHeader,
"Name": licenseNameHeader,
"ID": idHeader,
"DockerID": dockerIDHeader,
"ProductID": productIdHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start": startHeader,
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
l    licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
return c.l.Num
}

func (c *licenseContext) Owner() string {
return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
return c.l.String()
}

func (c *licenseContext) Name() string {
return c.l.Name
}

func (c *licenseContext) ID() string {
return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}
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February 14, 2009

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The End

1.1183 netty-handler 4.1.26.Final

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No license file was found, but licenses were detected in source scan.

= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is *very* readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too.:P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"
minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```ruby
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

### Unit tests

Define your tests as methods beginning with `+test_+`.

```ruby
require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end
end
```
def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
end

def test_that_will_be_skipped
    skip "test this later"
end
end

=== Specs

require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
end

describe "when asked about cheeseburgers" do
  it "must respond positively" do
    _(@meme.i_can_has_cheezburger?).must_equal "OHAI!"
  end
end

describe "when asked about blending possibilities" do
  it "won’t say no" do
    _(@meme.will_it_blend?).wont_match /^no/i
  end
end
end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match `<tt>/Bench(mark)?$/</tt>.

```ruby
describe "Meme Benchmark" do
  if ENV['BENCH'] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end
```

outputs something like:

```
# Running benchmarks:

TestBlah100100100000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932
```

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

```ruby
class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ",") + "?"
    @meme.__send__(method)
  end
end
```
require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end

==== Multi-threading and Mocks

Minitest mocks do not support multi-threading. If it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?
Time.stub :now, Time.at(0) do
  # stub goes away once the block is done
  assert obj_under_test.stale?
end
end

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

def obj_under_test.fake_method
...
end

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

................................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with +--help+:

% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help                Display this help.
  -s, --seed SEED           Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose             Verbose. Show progress processing files.
  -n, --name PATTERN        Filter run on /regexp/ or string.
  -e, --exclude PATTERN     Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride               Pride. Show your testing pride!
  -a, --autotest            Connect to autotest server.

You can set up a rake task to run all your tests by adding this to your Rakefile:

require "rake/testtask"
Rake::TestTask.new(:test) do |t|
  t.libs << "test"
  t.libs << "lib"
  t.test_files = FileList["test/**/test_*.rb"]
end

  task :default => :test

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your
project/gem. That file must be discoverable via ruby's LOAD_PATH (via
rubygems or otherwise). Minitest will find and require that file using
Gem.find_files. It will then try to call +plugin_XXX_init+ during
startup. The option processor will also try to call +plugin_XXX_options+
passing the OptionParser instance and the current options hash. This
lets you register your own command-line options. Here's a totally
total

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple
reporter instances. You can add new reporters to the composite during
the init_plugins phase. As we saw in +plugin_bogus_init+ above, you
simply add your reporter instance to the composite via <tt>&lt;&lt;</tt>.

+AbstractReporter+ defines the API for reporters. You may subclass it
and override any method you want to achieve your desired behavior.

start   :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

```ruby
# minitest/bogus_plugin.rb

module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end

    def record result
      self.results << result
    end

    def report
      CI.connect(addr, port).send_results self.results
    end
  end
end
```

# code from above...

== FAQ

=== What versions are compatible with what? Or what versions are supported?

Minitest is a dependency of rails, which until fairly recently had an overzealous backwards compatibility policy. As such, I'm stuck supporting versions of ruby that are long past EOL. Once rails 5.2 is dropped (hopefully April 2021), I get to drop a bunch of versions of ruby that I have to currently test against.

(As of 2021-01-31)

Current versions of rails: (https://endoflife.date/rails)

<table>
<thead>
<tr>
<th>rails</th>
<th>min ruby</th>
<th>rec ruby</th>
<th>minitest</th>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.0</td>
<td>&gt;= 2.7</td>
<td>3.0</td>
<td>&gt;= 5.1</td>
<td>Future</td>
</tr>
<tr>
<td>6.1</td>
<td>&gt;= 2.5</td>
<td>3.0</td>
<td>&gt;= 5.1</td>
<td>Current</td>
</tr>
<tr>
<td>6.0</td>
<td>&gt;= 2.5</td>
<td>2.6</td>
<td>&gt;= 5.1</td>
<td>Security</td>
</tr>
</tbody>
</table>
| 5.2 | >= 2.2.2 | 2.5 | ~> 5.1 | Security | EOL @railsconf 2021?

Current versions of ruby: (https://endoflife.date/ruby)

<table>
<thead>
<tr>
<th>ruby</th>
<th>Status</th>
<th>EOL Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>Current</td>
<td>2024-03-31</td>
</tr>
<tr>
<td>2.7</td>
<td>Maint</td>
<td>2023-03-31</td>
</tr>
<tr>
<td>2.6</td>
<td>Maint*</td>
<td>2022-03-31</td>
</tr>
<tr>
<td>2.5</td>
<td>Maint*</td>
<td>2021-03-31</td>
</tr>
<tr>
<td>2.4</td>
<td>EOL</td>
<td>2020-03-31</td>
</tr>
<tr>
<td>2.3</td>
<td>EOL</td>
<td>2019-03-31</td>
</tr>
<tr>
<td>2.2</td>
<td>EOL</td>
<td>2018-03-31</td>
</tr>
</tbody>
</table>

See also:

* https://www.fastruby.io/blog/ruby/rails/versions/compatibility-table.html
* https://jamesjeffersconsulting.com/ruby-rails-version-matrix/

### How to test SimpleDelegates?

The following implementation and test:

```ruby
class Worker < SimpleDelegator
  def work
    end
  end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    _(@worker).must_respond_to :work
  end
end
```

outputs a failure:

```
1) Failure:
  Worker#test_0001_must respond to work [bug11.rb:16]:
  Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.
```

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test
You can bypass `<tt>SimpleDelegate#method_missing</tt>` by extending the worker with `<tt>Minitest::Expectations</tt>`. You can either do that in your setup at the instance level, like:

```ruby
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

```ruby
class Worker
  include ::Minitest::Expectations
end
```

=== How to share code across test classes?

Use a module. That's exactly what they're for:

```ruby
module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end
```

Remember, `+describe+` simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== How to run code before a group of tests?

Use a constant with `begin...end` like this:

```ruby
describe Blah do
  SETUP = begin
    # ... this runs once when describe Blah starts
  end
```

---

**Open Source Used In Secure Workload 3.6.1.1  16072**
This can be useful for expensive initializations or sharing state. Remember, this is just ruby code, so you need to make sure this technique and sharing state doesn't interfere with your tests.

--- Why am I seeing `<tt>uninitialized constant MiniTest::Test (NameError)</tt>`?

Are you running the test with Bundler (e.g. via `<tt>bundle exec</tt>` )? If so, in order to require minitest, you must first add the `<tt>gem 'minitest'</tt>` to your Gemfile and run `<tt>+bundle+</tt>. Once it's installed, you should be able to require minitest and run your tests.

=== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

Minitest requires {Hoe}[https://rubygems.org/gems/hoe].

--- Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform. Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```plaintext
--- expected
+++ actual
@@ -1,2 +1,3 @@
# encoding: UTF-8
-"Expected /\w+/ to not match "blah blah blah"."
+"Expected /\w+/ to not match # encoding: UTF-8
+"blah blah blah"."
```

To check your current encoding, run:
ruby -e 'puts Encoding.default_external'

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of `-Eutf-8'. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command). Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

```=== Minitest's own tests require GNU (or similar) diff.
```

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

```
4) Failure:
 TestMinitestUnitTestCase#test_assert_equal_different_long
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
 Expected: "--- expected
+++ actual
@@ -1 +1 @@
- "hahahahahahahahahahahahahahahahahahahaha"
+ "blahblahblahblahblahblahblahblahblahblah"
"
 Actual: "Expected: "hahahahahahahahahahahahahahahahahahahaha"
  Actual: "blahblahblahblahblahblahblah"
"
```

```
5) Failure:
 TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
 Expected: "No visible difference in the Hash#inspect output.
You should look at the implementation of #== on Hash or its members.
{1=>#<Object:0xXXXXXX>}
"
 Actual: "Expected: {1=>#<Object:0x0000003ba0470>}
  Actual: {1=>#<Object:0x0000003ba0448>}
"
```

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU diffutils from http://gnuwin32.sourceforge.net/packages/diffutils.htm (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

```
diff.exe -v
```

There are multiple lines of output, the first should be something like:
diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec       :: Bridge between Capybara RSpec matchers and
                           Minitest::Spec expectations (e.g.
                           <tt>page.must_have_content("Title")</tt>).

color_pound_spec_reporter    :: Test names print Ruby Object types in color with
                           your Minitest Spec style tests.

minispec-metadata            :: Metadata for describe/it blocks & CLI tag filter.
                           E.g. <tt>it "requires JS driver", js: true do</tt> &
                           <tt>ruby test.rb --tag js</tt> runs tests tagged :js.

minispec-rails               :: Minimal support to use Spec style in Rails 5+.

mini-apivore                 :: for swagger based automated API testing.

minitest-around              :: Around block for minitest. An alternative to
                           setup/teardown dance.

minitest-assert_errors       :: Adds Minitest assertions to test for errors raised
                           or not raised by Minitest itself.

minitest-autotest            :: autotest is a continuous testing facility meant to
                           be used during development.

minitest-bacon               :: minitest-bacon extends minitest with bacon-like
                           functionality.

minitest-bang                :: Adds support for RSpec-style let! to immediately
                           invoke let statements before each test.

minitest-bisect              :: Helps you isolate and debug random test failures.

minitest-blink1_reporter     :: Display test results with a Blink1.

minitest-capistrano          :: Assertions and expectations for testing
                           Capistrano recipes.

minitest-capybara            :: Capybara matchers support for minitest unit and
                           spec.

minitest-chef-handler        :: Run Minitest suites as Chef report handlers

minitest-ci                  :: CI reporter plugin for Minitest.

minitest-context             :: Defines contexts for code reuse in Minitest
                           specs that share common expectations.

minitest-debugger            :: Wraps assert so failed assertions drop into
                           the ruby debugger.

minitest-display             :: Patches Minitest to allow for an easily
                           configurable output.

minitest-documentation       :: Minimal documentation format inspired by rspec's.

minitest-doc_reporter        :: Detailed output inspired by rspec's documentation
                           format.

minitest-emoji               :: Print out emoji for your test passes, fails, and
                           skips.

minitest-english             :: Semantically symmetric aliases for assertions and
expectations.

minitest-excludes :: Clean API for excluding certain tests you
don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files.
                      Differing results will be stored again in files.

minitest-filesystem :: Adds assertion and expectation to help testing
                      filesystem contents.

minitest-firemock   :: Makes your Minitest mocks more resilient.

minitest-focus      :: Focus on one test at a time.

minitest-gcstats    :: A minitest plugin that adds a report of the top
tests by number of objects allocated.

minitest-global_expectations:: Support minitest expectation methods for all objects

minitest-great_expectations :: Generally useful additions to minitest's
                               assertions and expectations.

minitest-growl      :: Test notifier for minitest via growl.

minitest-happy      :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!

minitest-have_tag   :: Adds Minitest assertions to test for the existence of
                      HTML tags, including contents, within a provided string.

minitest-hooks      :: Around and before_all/after_all/around_all hooks

minitest-hyper      :: Pretty, single-page HTML reports for your Minitest runs

minitest-implicit-subject :: Implicit declaration of the test subject.

minitest-instrument :: Instrument ActiveSupport::Notifications when
test method is executed.

minitest-instrument-db :: Store information about speed of test execution
                         provided by minitest-instrument in database.

minitest-junit       :: JUnit-style XML reporter for minitest.

minitest-keyword     :: Use Minitest assertions with keyword arguments.

minitest-libnotify   :: Test notifier for minitest via libnotify.

minitest-line        :: Run test at line number.

minitest-logger      :: Define assert_log and enable minitest to test log messages.

                      Supports Logger and Log4r::Logger.

minitest-macruby     :: Provides extensions to minitest for macruby UI
                      testing.

minitest-matchers    :: Adds support for RSpec-style matchers to
                      minitest.

minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec,
                            but without any expectation infections.

minitest-metadata    :: Annotate tests with metadata (key-value).

minitest-mock_expectations :: Provides method call assertions for minitest.

minitest-mongoid     :: Mongoid assertion matchers for Minitest.

minitest-must_not    :: Provides must_not as an alias for wont in
Minitest.

minitest-optional_retry :: Automatically retry failed test to help with flakiness.

minitest-osx         :: Reporter for the Mac OS X notification center.

minitest-parallel_fork :: Fork-based parallelization

minitest-parallel-db :: Run tests in parallel with a single database.

minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec subclasses
minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include 'celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette management with Minitest::Spec and VCR.
minitest_log :: Adds structured logging, data explication, and verdicts.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
mutant-minitest :: Minitest integration for mutant.
pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.
== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 2.3+. No magic is involved. I hope.

== INSTALL:

```bash
sudo gem install minitest
```

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

```bash
gem "minitest"       # ensures you're using the gem, and not the built-in MT
require "minitest/autorun"
```

# ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).
Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1158347145_1619743470.47/0/seattlerb-minitest-v5-14-4-0-g3c6576a-1-tar-gz/seattlerb-minitest-3c6576a/README.rdoc
No license file was found, but licenses were detected in source scan.

# for more details.

Found in path(s):
* /opt/cola/permits/1158347145_1619743470.47/0/seattlerb-minitest-v5-14-4-0-g3c6576a-1-tar-gz/seattlerb-minitest-3c6576a/lib/minitest/benchmark.rb

1.1185 c-ares 1.13.0

1.1185.1 Available under license:

# c-ares license

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1.1187 pycrypto 2.6.1-16.el7

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Last updated: 2009-02-28

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1.1188 perl-text-parsewords 3.29 4.el7

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--
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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
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This package was debianized by Philippe Seewer <philippe.seewer@bfh.ch> on Fri Nov 20 15:45:00 +0100

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1.1191 keyutils 1.4 4.el6

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1.1194 rss 0.2.8

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1.1199 which 2.20 7.el7

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Last updated: 2009-02-28

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1.1211 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.1212 libnetfilter-connttrack 1.0.4 2.el7

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1.1215 llvm 6.0.1-2.el7
1.1215.1 Available under license:

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    # %bb.0:
    ; CHECK-NEXT: vpaddd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT: vpadgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vpadgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %7
    store <64 x i32> %7, <64 x i32>* %c
    ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {;
  CHECK-LABEL: avg_v64i8_512:
  CHECK:  # %bb.0:
  CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
  CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {;
  CHECK-LABEL: pmaddwd_32_256:
  CHECK:  # %bb.0:
  CHECK-NEXT: vmovdqa (%rdi), %ymm0
  CHECK-NEXT: vmovdqa32(%rdi), %ymm1
  CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
  CHECK-NEXT: vpmaddwd32(%rsi), %ymm1, %ymm1
  CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %y.ptr
    %z = load <64 x i8>, <64 x i8>* %z.ptr
    ret void
}
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: psubus_64i8_max_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:   vpsubusb (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %x = load <64 x i8>, <64 x i8>* %xptr
  %y = load <64 x i8>, <64 x i8>* %yptr
  %cmp = icmp ult <64 x i8> %x, %y
  %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
  %res = sub <64 x i8> %max, %y
  store <64 x i8> %res, <64 x i8>* %zptr
  ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: _Z9test_charPcS_i_256:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:   movl %edx, %eax
  ; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:   xorl %ecx, %ecx
  ; CHECK-NEXT:   vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:   vpxor %xmm2, %xmm2, %xmm2
  ; CHECK-NEXT:   .p2align 4, 0x90
  ; LBB8_1: # %vector.body
  ; CHECK-NEXT:   # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:   vpmovsxbw (%rdi,%rcx), %ymm3
  ; CHECK-NEXT:   vpmovsxbw 16(%rdi,%rcx), %ymm4
  ; CHECK-NEXT:   vpmovsxbw (%rsi,%rcx), %ymm5
  ; CHECK-NEXT:   vpmaddwd %ymm3, %ymm5, %ymm5
  ; CHECK-NEXT:   vpadd %ymm3, %ymm5, %ymm3
  ; CHECK-NEXT:   vpmovsxbw 16(%rsi,%rcx), %ymm3
  ; CHECK-NEXT:   vpmaddwd %ymm4, %ymm3, %ymm3
  ; CHECK-NEXT:   vpadd %ymm3, %ymm5, %ymm3
  ; CHECK-NEXT:   addq $32, %rcx
  ; CHECK-NEXT:   cmpq %rcx, %rax
  ; CHECK-NEXT:   jne .LBB8_1

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined

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define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" { 
;
CHECK-LABEL: : _Z9test_charPcS_i_512:
;
CHECK: # %bb.0: # %entry 
;
CHECK-NEXT: : movl %edx, %eax 
;
CHECK-NEXT: : vpxor %xmm0, %xmm0, %xmm0 
;
CHECK-NEXT: : xorl %ecx, %ecx 
;
CHECK-NEXT: : vpxor %xmm1, %xmm1, %xmm1 
;
CHECK-NEXT: : .p2align 4, 0x90 
;
CHECK-NEXT: : .LBB9_1: # %vector.body 
;
CHECK-NEXT: : # =>This Inner Loop Header: Depth=1 
;
CHECK-NEXT: : vpmovsxbw (%rdi,%rcx), %zmm2 
;
CHECK-NEXT: : vpmovsxbw (%rsi,%rcx), %zmm3 
;
CHECK-NEXT: : vpmaddwd %zmm2, %zmm3, %zmm2 
;
CHECK-NEXT: : vpaddd %zmm1, %zmm2, %zmm1 
;
CHECK-NEXT: : addq $32, %rcx 
;
CHECK-NEXT: : cmpq %rcx, %rax 
;
CHECK-NEXT: : jne .LBB9_1 
;
CHECK-NEXT: : vpaddd %zmm0, %zmm1, %zmm0 
;
CHECK-NEXT: : vextracti64x4 %s1, %zmm0, %ymm1 
;
CHECK-NEXT: : vpaddd %zmm1, %zmm0, %zmm0 
;
CHECK-NEXT: : vextracti128 %s1, %ymm0, %xmm1 
;
CHECK-NEXT: : vpaddd %zmm1, %zmm0, %zmm0 
;
CHECK-NEXT: : vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1] 
;
CHECK-NEXT: : vpaddd %zmm1, %zmm0, %zmm0 
;
CHECK-NEXT: : vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3] 
;
CHECK-NEXT: : vpaddd %zmm1, %zmm0, %zmm0 
;
CHECK-NEXT: : vmovd %xmm0, %eax 
;
CHECK-NEXT: : vzeroupper 
;
CHECK-NEXT: : jne .LBB9_1 
;
CHECK-NEXT: : retq 

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> %i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> %i32 4, i32 5, i32 6, i32 7, i32 8, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> %i32 2, i32 3, undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> %i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
@a = global [1024 x i8] zeroinitializer, align 16
@a = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:     # %bb.0: # %entry
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT: .LBB10_1: # %vector.body
    ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %ymm2
    ; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT: addq $4, %rax
    ; CHECK-NEXT: jne .LBB10_1
    ; CHECK-NEXT: # %bb.2: # %middle.block
    ; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT: vextracti128 %1, %ymm0, %ymm1
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vmovd %ymm0, %eax
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    entry:
    br label %vector.body
}

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 %1, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 %1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsufd {[*#+]!!} %xmm1 = %xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsufd {[*#+]!!} %xmm1 = %xmm0[1,1,2,3]
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:                  # %bb.0:
    ; CHECK-NEXT:             vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:             kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:             vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:             vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:             vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:             vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT:             vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:             vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:             vzeroupper
    ; CHECK-NEXT:             retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:                  # %bb.0:
    ; CHECK-NEXT:             vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:             vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:             vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:             vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:             vzeroupper
    ; CHECK-NEXT:             retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:                  # %bb.0:
    ; CHECK-NEXT:             vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:             kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:             vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:             vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:             vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:             vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:             vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:             vcvtdq2pd %xmm2, %ymm3
    ; CHECK-NEXT:             vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:             vcvtdq2pd %xmm2, %ymm2
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {  
  CHECK-LABEL: sbto16f64_512:  
  CHECK:       # %bb.0:  
                  ; CHECK-NEXT:    vpmovw2m %ymm0, %k0  
                  ; CHECK-NEXT:    vpmovm2d %k0, %zmm0  
                  ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1  
                  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0  
                  ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0  
                  ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)  
                  ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)  
                  ; CHECK-NEXT:    vzeroupper  
                  ; CHECK-NEXT:    retq  
  %mask = icmp slt <16 x i16> %a, zeroinitializer  
  %l = sitofp <16 x i1> %mask to <16 x double>  
  store <16 x double> %l, <16 x double>* %res  
  ret void  
}  

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {  
  CHECK-LABEL: ubto16f32_256:  
  CHECK:       # %bb.0:  
                  ; CHECK-NEXT:    vpmovw2m %ymm0, %k0  
                  ; CHECK-NEXT:    kshiftrw $8, %k0, %k1  
                  ; CHECK-NEXT:    vpmovm2d %k1, %ymm0  
                  ; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0  
                  ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0  
                  ; CHECK-NEXT:    vpmovm2d %k0, %ymm1  
                  ; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1  
                  ; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1  
                  ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)  
                  ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)  
                  ; CHECK-NEXT:    vzeroupper  
                  ; CHECK-NEXT:    retq  
  %mask = icmp slt <16 x i16> %a, zeroinitializer  
  %l = uitofp <16 x i1> %mask to <16 x float>  
  store <16 x float> %l, <16 x float>* %res  
}
ret void
;
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:  vpsrl $31, %zmm0, %zmm0
    ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:  vpmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrl $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:  vpsrl $31, %ymm2, %ymm2
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm3
    ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:  vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:  vcvtq2pd %xmm2, %ymm3
    ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:  vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrl $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:  vpsrl $31, %ymm2, %ymm2
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm3
    ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:  vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:  vcvtq2pd %xmm2, %ymm3
    ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:  vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
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; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpslid $31, %zmm0, %zmm0
; CHECK-NEXT:  vcvtqd2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL:  test_16f32toub_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvtqps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvtqps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqul6 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL:  test_16f32toub_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvtqps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k0
; CHECK-NEXT:  vcvtqps2dq 32(%rdi), %zmm1
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqul6 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:   kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:   retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:   vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:   retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mul256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:   vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:   vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:   vpunpckhbw {{.*#*}} %ymm4 =
       ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13]
       ,ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm
       m0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ym
       m0[31]
    ; CHECK-NEXT:   vpunpckhbw {{.*#*}} %ymm5 =
       ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12]
       ,ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26]
       ,ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ym
       m0[31]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
  zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
  zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[
  26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
  mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[
  45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
  mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
  zmm0[8],8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
  2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63
; CHECK-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vmovdqa64 {{.*#+}} zmm3 =
; CHECK-NEXT:  vpandq %zmm3, %zmm2, %zmm2
; CHECK-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
  zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5]
  ,zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],z
  mm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32]
  ,zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],z
  mm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1[
  51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
; CHECK-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
  zmm0[0],0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,23,23,32,33,33,34
  ,34,35,35,35,36,36,36,36,37,37,38,38,38,39,39,48,48,49,49,50,50,51,51,52,52,52,53,53,54,54,55,55
; CHECK-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 {{.*#+}} zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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Developed by:

LLVM Team

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<td>&lt;none yet&gt;</td>
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</table>

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
 ; VEC256-LABEL: 'zext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'zext256'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x...
define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; SKX256-LABEL: 'zext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; VEC512-LABEL: 'zext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
define void @sext256() "min-legal-vector-width"="256" {  
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
  ;  
  ; VEC512-LABEL: 'sext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
  ;  
  ; }
define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
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target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph:                       ; preds = %entry
    br label %while.body

  while.body:                               ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

  sw.bb.i:                                       ; preds = %while.body
    unreachable

  sw.bb3.i:                                      ; preds = %while.body
    unreachable

  exit:                        ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

  sw.bb.i17:                                ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32

%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

    ; CHECK: ret
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {  
  ; CHECK-LABEL: test_sitofp_fixed_shortish:
  ; CHECK-DAG: scvtf.2d v0, v0  
  ; CHECK-DAG: scvtf.2d v1, v1
  
  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}  
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {  
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {  
  ret void
}

define internal void @innerNoAttribute() {  
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {  
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {  
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {  
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
   call void @innerNoAttribute()
   ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "i686-none-"
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

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define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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</tr>
</thead>
<tbody>
<tr>
<td>Google Test</td>
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</tr>
<tr>
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<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParse/<em>.</em>.data, LICENSE.TXT</td>
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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1.1216 protobuf-java 3.1.0

1.1217 openosc 1.0.4

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The End

1.1219 bean-validation-api 1.1.0.Final

1.1220 librsvg 2.40.20 1.el7

1.1221 python-ascii-graph 1.2.0

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1.1222 keyutils 1.5.8-3.el7

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1.1223 x-crypto 0.0.0-20191106202628-ed6320f186d4

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analoguous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!
1.1227 sprig 3.1.0

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1.1228 lz4 1.8.0

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1.1230 gstreamer 1.8.0
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<signature of Ty Coon>, 1 April 1990
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1.1231 httpsig-cffi 15.0.0

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1.1232 python 2.6.6-68.el6_10

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.. _history-and-license:

*******************
History and License
*******************

History of the software
========================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org/ for the Open Source Definition). Historically, most, but not all, Python releases have also
been GPL-compatible; the table below summarizes the various releases.

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<th>Year</th>
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   Mersenne Twister
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

--------------------------

The :mod:`xmlrpc.client` module contains the following notice::

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test_epoll

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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cfuhash
-------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2.1.3  2.1.2  2002  PSF  yes
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# Welcome to Rails

Rails is a web-application framework that includes everything needed to create database-backed web applications according to the [Model-View-Controller (MVC)](http://en.wikipedia.org/wiki/Model-view-controller) pattern.
Understanding the MVC pattern is key to understanding Rails. MVC divides your application into three layers, each with a specific responsibility.

The **Model layer** represents your domain model (such as Account, Product, Person, Post, etc.) and encapsulates the business logic that is specific to your application. In Rails, database-backed model classes are derived from `ActiveRecord::Base`. Active Record allows you to present the data from database rows as objects and embellish these data objects with business logic methods. You can read more about Active Record in its [README](activerecord/README.rdoc). Although most Rails models are backed by a database, models can also be ordinary Ruby classes, or Ruby classes that implement a set of interfaces as provided by the Active Model module. You can read more about Active Model in its [README](activemodel/README.rdoc).

The **Controller layer** is responsible for handling incoming HTTP requests and providing a suitable response. Usually this means returning HTML, but Rails controllers can also generate XML, JSON, PDFs, mobile-specific views, and more. Controllers load and manipulate models, and render view templates in order to generate the appropriate HTTP response. In Rails, incoming requests are routed by Action Dispatch to an appropriate controller, and controller classes are derived from `ActionController::Base`. Action Dispatch and Action Controller are bundled together in Action Pack. You can read more about Action Pack in its [README](actionpack/README.rdoc).

The **View layer** is composed of "templates" that are responsible for providing appropriate representations of your application's resources. Templates can come in a variety of formats, but most view templates are HTML with embedded Ruby code (ERB files). Views are typically rendered to generate a controller response, or to generate the body of an email. In Rails, View generation is handled by Action View. You can read more about Action View in its [README](actionview/README.rdoc).

Active Record, Active Model, Action Pack, and Action View can each be used independently outside Rails. In addition to that, Rails also comes with Action Mailer ([README](actionmailer/README.rdoc)), a library to generate and send emails; Active Job ([README](activejob/README.md)), a framework for declaring jobs and making them run on a variety of queueing backends; Action Cable ([README](actioncable/README.md)), a framework to integrate WebSockets with a Rails application; Active Storage ([README](activestorage/README.md)), a library to attach cloud and local files to Rails applications; and Active Support ([README](activesupport/README.rdoc)), a collection of utility classes and standard library extensions that are useful for Rails, and may also be used independently outside Rails.

### Getting Started

1. Install Rails at the command prompt if you haven't yet:

   $ gem install rails
2. At the command prompt, create a new Rails application:

   $ rails new myapp

   where "myapp" is the application name.

3. Change directory to `myapp` and start the web server:

   $ cd myapp
   $ rails server

   Run with `--help` or `--h` for options.

4. Using a browser, go to `http://localhost:3000` and you'll see:

   "Yay! You're on Rails!"

5. Follow the guidelines to start developing your application. You may find the following resources handy:

   * [Getting Started with Rails](http://guides.rubyonrails.org/getting_started.html)
   * [Ruby on Rails Guides](http://guides.rubyonrails.org)
   * [The API Documentation](http://api.rubyonrails.org)
   * [Ruby on Rails Tutorial](https://www.railstutorial.org/book)

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1.1243 pycrypto 2.0.1 22.el6

1.1243.1 Available under license:

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--amk (www.amk.ca)

1.1244 python-backports-abc 0.5-2.el7

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A. HISTORY OF THE SOFTWARE

=================================================================================
Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnr.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.1245 createrepo 0.9.9-28.el7

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1.1248 api-ldap-extras-codec-api 1.0.0-M20

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===============================================================================

The class "org.apache.commons.math3.exception.util.LocalizedFormatsTest" is
an adapted version of "OrekitMessagesTest" test class for the Orekit library
The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator"
has been imported from the Orekit space flight dynamics library.

The Orekit library is described at:
https://www.orekit.org/forge/projects/orekit
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1.1253 maxmind-db 1.3.0

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/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
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*/

* jcprepct.c
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* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcprepct.c for the downsampler's needs.
*/

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*/

* rdbmp.c
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* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
* This code contributed by James Arthur Boucher.
Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdbmp.c
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/*
 * ckconfig.c
 *
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 */

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/*
 * jchuff.c
 *
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 * Modified 2006-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 *
 * We do not support output suspension for the progressive JPEG mode, since
 * the library currently does not allow multiple-scan files to be written
 * with output suspension.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jchuff.c
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/*
 * jcapistd.c
 *
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcapistd.c
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/*
* jdmaster.c
*
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*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdmaster.c
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INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

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This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.
If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
```
./configure
make
make test
If that doesn't complain, do
make install
```
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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- Configuring the software:
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- Building the software
- Testing the software
- Installing the software
- Optional stuff
- Optimization
- Hints for specific systems

### BEFORE YOU START

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.
CONFIGURING THE SOFTWARE
=================================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  ./configure --disable-shared
  If you want to build libjpeg only as a shared library, say
  ./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  ./configure CC='cc'
The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc. You can override this by saying, for example,

```
./configure CFLAGS=-O2
```

if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option “--enable-maxmem=N” where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

```
Makefile jconfig file
System and/or compiler
```

mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makedefconfig.bcc MS-DOS or OS/2, Borland C
makefile.djconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.watconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile. vcconfig. vc Windows, MS Visual C++
makefile.vsconfig. vc Windows, MS Visual C++ 6 Developer Studio
make*. vc6
makefile.vsconfig. vc Windows, Visual Studio 2017 (v15)
make*. v15
makefile.b32jconfig. vc Windows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig. vms Digital VMS, with MMS software
makefile.mmsjconfig. vms Digital VMS, without MMS software
Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
--------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).
Here are comments about some specific configuration decisions you'll need to make:

Command line style
-------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:

cjpeg inputfile >outputfile

cjpeg <inputfile >outputfile

source program | cjpeg >outputfile

The simpler "two file" command line style is just

cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
--------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-) ) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.
* jmemdos.c: This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MS DOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c: Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

**BUILDING THE SOFTWARE**

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.
If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
====================
As a quick test of functionality we've included a small sample image in several forms:
testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg,
testimgp.jpg The output of cjjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)
If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib
OPTIONAL STUFF

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.
To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and
not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPPLUS library, but it is expected that a future release of PBMPPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============
Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling.
(Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.) After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjepg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjepg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjepg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjepg/djepg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

"#pragma novector" just before the loop

for (i = 1; i <= (int) htbl->bits[l]; i++)

  huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.anpi and add 
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpegdjpe you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part. The CodeWarrior source code is available from http://www.pobox.com/~jsam.
2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)

NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.
You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.
On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.)

Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.
wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jemansic or jemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)
windef.h contains the declarations
#define far
#define FAR far

Since jmorecfg.h tries to define FAR as empty, you may get a compiler
warning if you include both jpeglib.h and windef.h (which windows.h
includes). To suppress the warning, you can put "#ifndef FAR"/"#endif"
around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly
want to modify or replace the error handler module jerror.c, since our
default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS
sections above for more info about memory models.) In the 16-bit memory
models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory. In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.
You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```c
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?
Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```c
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}
```

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"?)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

---

Open Source Used In Secure Workload 3.6.1.1 16478
Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs  test-build
5. Move the application .exe files from `app`\Release to an
   appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need
to back off the optimization switch settings. See the comments in
makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
   ./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the
stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2"
reportedly speeds up the float DCT method substantially, enough to make it
faster than the default int method (but still slower than the fast int
method). If you use -mips2, you may want to alter the default DCT method to
be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1”
qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure
reporting differences when it compares the original and test images. If the
error points to the last block of the files, it is most likely bogus and may
be safely ignored. It seems to be because the files are Stream_LF and
Backup/Compare has difficulty with the (presumably) null padded files.
This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 */
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmarker.c

No license file was found, but licenses were detected in source scan.

/*
 * jdapstd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdapistd.c

No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmainct.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jidctflt.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemname.c
 *

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* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemname.c

No license file was found, but licenses were detected in source scan.

/*
* jaricom.c
*
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jaricom.c

No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Lichtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctint.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read
if and when you need them.

OVERVIEW
=========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
- Hierarchical storage
- Lossless JPEG
- DNL marker
- Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
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Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped.
because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.
1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
```
where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.
Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently.
Examples of this can be found in the sample application cjjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen. In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.
If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call
jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.
If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.
It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it
equals out_color_components. It is the number of JSAMPLE values that will be
emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your
output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate
data buffers (as djpeg does), then the manager's protocol requires that you
request large buffers *before* calling jpeg_start_decompress(). This is a
little tricky since the output_XXX fields are not normally valid then. You
can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines()
one or more times. At each call, you pass in the maximum number of scanlines
to be read (ie, the height of your working buffer); jpeg_read_scanlines()
will return up to that many lines. The return value is the number of lines
actually read. The format of the returned data is discussed under "Data
formats", above. Don't forget that grayscale and color JPEGs will return
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write
out the image in bottom-to-top order, you can use the JPEG library's virtual
array mechanism to invert the data efficiently. Examples of this can be
found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far
in the output_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
should NOT be against image_height, unless you never use scaling. The
image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that
jpeg_read_scanlines() reads at least one scanline per call, until the
bottom of the image has been reached.
If you use a buffer larger than one scanline, it is NOT safe to assume that
jpeg_read_scanlines() fills it. (The current implementation returns only a
few scanlines per call, no matter how large a buffer you pass.) So you must
always provide a loop that calls jpeg_read_scanlines() repeatedly until the
whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to
complete the decompression cycle. This causes working memory associated
with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio
stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct
total number of scanlines. If you wish to abort decompression, call
jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as
discussed next, or you may use it to decompress another image. In that case
return to step 2 or 3 as appropriate. If you do not change the source
manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling
jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of
destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or
jpeg_destroy() if you don't need the JPEG object any more, or
jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object.
The previous discussion of aborting compression cycles applies here too.
Mechanics of usage: include files, linking, etc
-------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

ejpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.
ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorscape() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorscape(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change
in future IJG releases as more is learned about DCT quantization.
If the force_baseline parameter is TRUE, then the quantization table
entries are constrained to the range 1..255 for full JPEG baseline
compatibility. In the current implementation, this only makes a
difference for quality settings below 25, and it effectively prevents
very small/low quality files from being generated. The IJG decoder
is capable of reading the non-baseline files generated at low quality
settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
    boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colors() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling jpeg_set_colors(), because entropy table assignment in jpeg_set_colors() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".
boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(i.e., YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBS]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables().
See rdswtch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height
Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
-----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent
to M/8 scaling, since the source DCT size for baseline JPEG is 8.
Smaller scaling ratios permit significantly faster decoding since
fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE,
meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color
map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color
map for the image. This usually looks a lot better than the one-size-
fits-all colormap that is used otherwise. Default is TRUE. Ignored
when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented
only in the single-pass, standard-colormap case. If you ask for
ordered dither when two_pass_quantize is TRUE or when you supply
an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next
two fields. colormap is set to NULL by jpeg_read_header(). The application
can supply a color map by setting colormap non-NULL and setting
actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress()
selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.
Additional decompression parameters that the application may set include:

**J_DCT_METHOD dct_method**
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

**boolean do_fancy_upsampling**
If TRUE, use direct DCT scaling with DCT size > 8 for upampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

**boolean do_block_smoothing**
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

**boolean enable_1pass_quant**
**boolean enable_external_quant**
**boolean enable_2pass_quant**
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

**JDIMENSION output_width** Actual dimensions of output image.
**JDIMENSION output_height**
**int out_color_components** Number of color components in out_color_space.
**int output_components** Number of color components returned.
**int rec_outbuf_height** Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation.

jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

`jpeg_set_colorspspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for `jpeg_set_colorspspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`. `jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports

YCbCr => RGB  
YCbCr => GRAYSCALE  
BG_YCC => RGB  
BG_YCC => GRAYSCALE  
RGB => GRAYSCALE  
GRAYSCALE => RGB  
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data.)
The library does not touch client_data at all.

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
er->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cerror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatpe JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;  /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize
next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.
term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety’s sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely
Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call,
so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans.

Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:
To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.
In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

JPEG_SUSPENDED can occur only if a suspending data source is used. This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
```
jpeg_start_output(&cinfo, cinfo.input_scan_number);

...  
jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)

In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it.
as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a
matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   - Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   - Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   - Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.

(Teas requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image
mode only when the incoming file actually has multiple scans. This can be
tested by calling jpeg_has_multiple_scans(), which will return a correct
result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input
processing get ahead of output processing, the resulting pattern of access to
the coefficient buffer is quite nonsequential. It's best to use the memory
manager jmemnobs.c if you can (ie, if you have enough real or virtual main
memory). If not, at least make sure that max_memory_to_use is set as high as
possible. If the JPEG memory manager has to use a temporary file, you will
probably see a lot of disk traffic and poor performance. (This could be
improved with additional work on the memory manager, but we haven't gotten
around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all
input processing, including reading the initial markers; that is, you may
wish to call jpeg_consume_input() instead of jpeg_read_header() during
startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes.

Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it will just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case.

If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.
The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().
Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length...
parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks*block_size samples per row
cinfo->comp_info[i].height_in_blocks*block_size rows in image after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
-----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.
You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that.

At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- `long pass_counter; /* work units completed in this pass */`
- `long pass_limit; /* total number of work units in this pass */`
- `int completed_passes; /* passes completed so far */`
- `int total_passes; /* total number of passes expected */`

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

--------------------------------------------

total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression
depend on image dimensions, image characteristics (such as colorspace and
JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending
   on operating mode and image characteristics (particularly color vs.
grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and
   upsampling results. The worst case for commonly used sampling factors
   is about 34 bytes * width in pixels for a color image. A grayscale image
   only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG
   file (including progressive JPEGs), or whenever you select buffered-image
   mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's
   3 bytes per pixel for a color image. Worst case (1x1 sampling) requires
   6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a
   128K color lookup table and a full-image pixel buffer (3 bytes/pixel).
   This does not count any memory allocated by the application, such as a
   buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with
32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The “fixed-size” data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later. Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to
compute usable tables for higher precision. Otherwise, you'll have to
supply different default Huffman tables. You may also want to supply your
own DCT quantization tables; the existing quality-scaling code has been
developed for 8-bit use, and probably doesn't generate especially good tables
for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined
by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we
expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve
performance or reduce memory space by tweaking the various typedefs in
jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s
is quite slow; consider trading memory for speed by making JCOEF, INT16, and
UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory
to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library;
the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display
a message anyway. To do this, remove the creation of the message table
(jpeg_std_message_table[]) from jerror.c, and alter format_message to do
something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple
more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing;
you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample
applications cjpeg and djpeg are slightly less so. This section summarizes
the design goals in this area. (If you encounter any bugs that cause the
library to be less portable than is claimed here, we'd appreciate hearing
about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of
the popular system include file setups, and some not-so-popular ones too.
See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As
distributed, we make the assumptions that
char is at least 8 bits wide
shorts at least 16 bits wideints at least 16 bits wide
longs at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model...
if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (e.g., about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/libjpeg.txt
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

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For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.
We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.
*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.
There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of
course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
       |             |             |
----------controller----------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a “strip” buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In
practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
 ||-- Preprocessing controller --|
 |                              |-- Downsampling
Main controller --|
 |                      |-- Forward DCT, quantize
 |                      |-- Coefficient controller --|
                      |---- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples);
but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application:
if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Main controller --|
 |  |-- Coefficient controller --|  |-- Dequantize, Inverse DCT
 |  |  |-- Entropy decoding
 |  |  |  |-- Upsampling
 |
 |  |-- Postprocessing controller --|  |-- Colorspace conversion
 |  |  |-- Color quantization
 |  |  |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* **Main controller**: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* **Coefficient controller**: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* **Entropy decoding**: Read coded data from the data source module and perform
Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).
In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller’s DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple
scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn’t any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard’s specification that sample values run from -128.127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.)
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be
defined as 255 and 128 respectively in an 8-bit implementation, and as 4095
and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This
choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of
  the rows. This simplifies edge expansion/compression, since we can work
  in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many
  machines.
* Arrays with more than 64K total elements can be supported even on machines
  where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
  without extra copying. This trick allows some speedups in smoothing steps
  that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the
traditional layout in which the components of a pixel are stored together.
This simplifies coding of modules that work on each component independently,
because they don't need to know how many components there are. Furthermore,
we can read or write each component to a temporary file independently, which
is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the
first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.
The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring
there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.
(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made
available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_termin: system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small: interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines; else usually the same as

jpeg_get_small/jpeg_free_small

jpeg_mem_available: estimate available memory

jpeg_open_backing_store: create a backing-store object

read_backing_store, manipulate a backing-store object

write_backing_store,

close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.
It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used
or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/structure.txt
No license file was found, but licenses were detected in source scan.

ifax
* jddctmgr.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
* 
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jddctmgr.c
No license file was found, but licenses were detected in source scan.

ifax
* jdmaint.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampling data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmainct.c

No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */
/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */
Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
*
No license file was found, but licenses were detected in source scan.

No license file was found, but licenses were detected in source scan.

No license file was found, but licenses were detected in source scan.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than 2-byte boundaries.
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jmemdos.c
No license file was found, but licenses were detected in source scan.

/ *
  * jdpostct.c
  *
  * Copyright (C) 1994-1996, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains the decompression postprocessing controller.
  * This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.
  *
  * If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code.
  * An integrated upsample/convert/quantize process would replace this module entirely.
  */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdpostct.c
No license file was found, but licenses were detected in source scan.

/ *
  * jdcoefct.c
  *
  * Copyright (C) 1994-1997, Thomas G. Lane.
  * Modified 2002-2011 by Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains the coefficient buffer controller for decompression.
  * This controller is the top level of the JPEG decompressor proper.
  * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
  *
  * In buffered-image mode, this controller is the interface between input-oriented processing and output-oriented processing.
  * Also, the input side (only) is used when reading a file for transcoding.
  */
/*
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
This file documents the configuration options that are required to customize the JPEG software for a particular system.

The actual configuration options for a particular installation are stored in jconfig.h. On many machines, jconfig.h can be generated automatically or copied from one of the "canned" jconfig files that we supply. But if you need to generate a jconfig.h file by hand, this file tells you how.

DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING. EDIT A COPY NAMED JCONFIG.H.

These symbols indicate the properties of your machine or compiler.

#define the symbol if yes, #undef it if no.

Does your compiler support function prototypes?
(If not, you also need to use ansi2knr, see install.txt)

#define HAVE_PROTOTYPES

Does your compiler support the declaration "unsigned char"?

#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

Define "void" as "char" if your compiler doesn't know about type void.

#define void char

Define "const" as empty if your compiler doesn't know the "const" keyword.

#define const

Define this if an ordinary "char" type is unsigned.

If you're not sure, leaving it undefined will work at some cost in speed.

If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.

#undef CHAR_IS UNSIGNED

Define this if your system has an ANSI-conforming <stddef.h> file.
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems. */
#ifndef _WIN32
#endif
#if defined _RPCNR_H /* don’t conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#endif	/* in case these macros already exist */
#define FALSE	0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE	1
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

#endif /* JPEG_CJPEG_DJPEG */

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpe.c or djpe.c.
*/
#undef TWO_FILE_COMMANDLINE
/* Define this if your system needs explicit cleanup of temporary files. */
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb"). */
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPG_DJPEG */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcmmaster.c

No license file was found, but licenses were detected in source scan.

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdct.h

No license file was found, but licenses were detected in source scan.

/*
 * jdcmmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdcolor.c
No license file was found, but licenses were detected in source scan.

*/

* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jccoefct.c
No license file was found, but licenses were detected in source scan.

*/

* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in GIF format.
* 
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,  *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.                  *
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* /
*/

* This code is loosely based on ppmtogif from the PBPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
* /

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctfst.c

No license file was found, but licenses were detected in source scan.

/ *
* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpegtran.c

No license file was found, but licenses were detected in source scan.

/ *
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jccolor.c

No license file was found, but licenses were detected in source scan.

/ *
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
/ /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*/
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
*     FSpDelete     ->  HDelete
*     FSpGetFInfo  ->  HGetFInfo
*     FSpCreate    ->  HCreate
*     FSpOpenDF    ->  HOpen   *** Note: not HOpenDF ***
*     FSMakeFSSpec ->  (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemmac.c
No license file was found, but licenses were detected in source scan.

/ *
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c


* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains routines to write output images in Targa format.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
================
Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jnemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapimin.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapimin.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jcparam.c Compression parameter setting helper routines.
jctrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.
Compression side of the library:

cinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcppept.c Preprocessor buffer controller.
jccoeffct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jcsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoeffct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jddctmgr.c DCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jeror.c Standard error handling routines (application replaceable).
jnemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.
jnemmgr.c relies on a system-dependent memory management module. The IJG
distribution includes the following implementations of the system-dependent
module:

jnemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an
installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special
system-dependent memory manager.

Non-C source code files:

jnemdos.aasm80x86 assembly code support for jmemdos.c; used only in
MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

Include files:

cdjpeg.h Declarations shared by cjepg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjepg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjepg.c Main program for cjepg.
djpeg.c Main program for djepg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdbcolmap.c Code to read a colormap file for djepg's "-map" switch.
rdswh.c Code to process some of cjepg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjepg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rddpm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrrele.c Utah RLE file output.
wrtdarga.c Targa file output.

RDJPGCOM/WRJPGCOM

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltnain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am	Source file for use with Automake to generate Makefile.in.
ckconfig.c	Program to generate jconfig.h on non-Unix systems.
jconfig.txt	Template for making jconfig.h by hand.
mak*.*	Sample makefiles for particular systems.
jconfig.*	Sample jconfig.h for particular systems.
libjpeg.map	Script to generate shared library with versioned symbols.
libjpeg.pc.in	libjpeg.pc pkg-config file input for configure.
aclocal.m4	M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.*	Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
*\[ R = Y + K1 \cdot Cr \]
*\[ G = Y + K2 \cdot Cb + K3 \cdot Cr \]
*\[ B = Y + K4 \cdot Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdarith.c

No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
============================================

README for release 9c of 14-Jan-2018
====================================

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

- OVERVIEW General description of JPEG and the IJG software.
- LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
- REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS  Where to find newer versions of this software.
ACKNOWLEDGMENTS  Special thanks.
FILE FORMAT WARS  Software *not* to get.
TO DO  Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt  How to configure and install the IJG software.
usage.txt  Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1  Unix-style man pages for programs (same info as usage.txt).
wizard.txt  Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt  How to use the JPEG library in your own programs.
example.c  Sample code for calling the JPEG library.
structure.txt  Overview of the JPEG library's internal structure.
filelist.txt  Road map of IJG files.
coderules.txt  Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.
In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.iijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris,
France.


The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
=================

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result
in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the iwj.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
==================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of
the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.
One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.
Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.
The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.
IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.
The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/README
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)

* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.

*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemsys.h

No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
  just the lower 8 frequency coefficients and discarding the rest.

* We must scale the output coefficients of the N-point FDCT appropriately
  to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
  is folded into the constant multipliers (pass 2) and/or final/initial
  shifting.

* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
  since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdin stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdswitch.c
No license file was found, but licenses were detected in source scan.

/ *
* djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/djpeg.c
No license file was found, but licenses were detected in source scan.

/ *
* jpeglib.h
* * Copyright (C) 1991-1998, Thomas G. Lane.
* * Modified 2002-2017 by Guido Vollbeding.
* * This file is part of the Independent JPEG Group's software.
* * For conditions of distribution and use, see the accompanying README file.
* *
* * This file defines the application interface for the JPEG library.
* * Most applications using the library need only include this file,
* * and perhaps jerror.h if they want to know the exact error codes.
* */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * * Modified 1997-2013 by Guido Vollbeding.
 * * This file is part of the Independent JPEG Group's software.
 * * For conditions of distribution and use, see the accompanying README file.
 * *
 * * This file contains additional configuration options that customize the
 * * JPEG software for special applications or support machine-dependent
 * * optimizations. Most users will not need to touch this file.
 * */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * * This file is part of the Independent JPEG Group's software.
 * * For conditions of distribution and use, see the accompanying README file.
 * *
 * * This file contains portable arithmetic entropy encoding routines for JPEG
 * *
 * * Both sequential and progressive modes are supported in this single module.
 * *
 * * Suspension is not currently supported in this module.
 * */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 */

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jinclude.c
No license file was found, but licenses were detected in source scan.
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* 
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemansi.c

No license file was found, but licenses were detected in source scan.

/ *
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface routines that are used for both
* compression and decompression.
*/
/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.
Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

```c
/*
 *  Block comments in this style.
 */
```

We indent statements in K&R style, e.g.,
```c
if (test) {
    then-part;
} else {
    else-part;
}
```
with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
```c
multi_word_name (not multiWordName).
```
Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool `ansi2knr.c` (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structures). We handle these with a macro JMETHOD, defined as
#define HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
  JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHOD(void, term_entropy_encoder, (void));
};
Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator
is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore,
we want it to be reentrant so that it can be used by applications that process
multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc;
pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static
wherever possible. (Note that our method-based calling conventions help this
a lot: in many modules only the initialization function will ever need to be
called directly, so only that function need be externally visible.) All
global function names should begin with "jpeg_", and should have an
abbreviated name (unique in the first six characters) substituted by macro
when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module
should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/coderules.txt

No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcparam.c

No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and

* making an initialization call to each one.
* Logicaly, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-clip/jpeg-9c-master/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
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* *
* This file contains software version identification.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-clip/jpeg-9c-master/jversion.h
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
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* *
* This file contains downsampling routines.
* *
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
* *
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
* *
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

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* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-jpeg-9c-master/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

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* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-jpeg-9c-master/jdatasrc.c
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/*
 * cdjpeg.c
 *
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 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

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* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
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 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jquant2.c
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/*
 * jpegimin.c
 *
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 */
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
* /

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
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 * Modified 2002-2013 by Guido Vollbeding.
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 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor’s input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 * /

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdinput.c
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/*
 * rdjpgcom.c
 *
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 * Modified 2009 by Bill Allombert, Guido Vollbeding.
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 * 
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 * /
/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
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 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

/*
 * rdgif.c
 *
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 *
 * This file contains routines to read input images in GIF format.
 *
 * ***************************************************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression,    *
 * the ability to read GIF files has been removed from the IJG distribution. *
 * Sorry about that.                                                        *
 * ***************************************************************************
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */
/*
 * wrppm.c
 *
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 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

1.1256 python-chardet 2.2.1 1.el7_1

1.1256.1 Available under license :

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Version 2.1, February 1999

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1.1262 container-selinux 2.119.2-
1.911c772.el7_8

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Automated Testing Framework

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<xsl:template name="isc.copyright.format">
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  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="book/info/copyright | refentry/docinfo/copyright">
      <xsl:text>Copyright (C) </xsl:text>
      <xsl:call-template name="copyright.years">
        <xsl:with-param name="years" select="year"/>
      </xsl:call-template>
      <xsl:text> </xsl:text>
      <xsl:value-of select="holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
    </xsl:for-each>
  </xsl:call-template>
</xsl:variable>
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1.1265 systemd 219-78.el7_9.2

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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------------------------------------------------------------------------

[incr Tcl]
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http://www.tcltk.com/itcl
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1.1278 sys-proctable 1.0.0

1.1278.1 Available under license :

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= Description
A simple 'top' interface for Ruby

= Prerequisites
Requires the "sys/proctable" package (which should be installed along with this package).

= Synopsis
require "sys/top"

Sys::Top.top(5).each { |ps|
  p ps
}

= Constants
VERSION
Returns the version number of this package as a String.

= Class Methods
Sys::Top.top(number=10, field="pctcpu")
Returns an array of ProcTableStruct's. The size of the array (i.e. the number of processes) that it returns is based on +number+, and sorted by +pctcpu+. By default, the size and field values are 10 and "pctcpu", respectively.

= Notes
Not all fields are available on all platforms. Please check your platform specific documentation for which fields are available.

= Bugs
None that I'm aware of. Please log bug reports on the project page at http://www.rubyforge.org/projects/sysutils
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Artistic 2.0

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* /opt/cola/permits/1156166336_1634058741.04/0/sys-proctable-1-0-0-universal-linux-tar-gz/sys-proctable-1.0.0-universal-linux-tar-gz/sys-proctable-1.0.0-universal-linux/doc/top.txt
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== 1.0.0 - 11-Jan-2016
* Added smaps information for Linux. Thanks go to Joe Rafaniello for the patch.
* This is not really a major release. I just ran out of version numbers.

== 0.9.9 - 8-Nov-2015
* Added support for cgroups on Linux. Thanks go to Dennis Gnnewig for the patch.
* Added a sys-proctable.rb file for convenience.
* This gem is now signed.
* Gem related tasks in the Rakefile now assume Rubygems 2.x.

== 0.9.8 - 18-Apr-2015
* Fixed a bug in the gemspec. Last version got yanked.

== 0.9.7 - 18-Apr-2015
* Fixed a bug in the OSX code that could cause the ps method to fail. Thanks go to Koshevoy Anton for the spot.
* Some internal refactoring of version handling. Now all platforms use a single version file.
* Replaced vm_size_t and lwpid_t with universal data types on FreeBSD because FFI on FreeBSD 10 no longer understands them. Thanks go to Mike Owens for the spot.
== 0.9.6 - 24-Feb-2015
* Added NLWP field on Linux. Thanks go to Rich Chatterton for the patch.

== 0.9.5 - 10-Feb-2015
* Significant cleanup and memory reduction of the OSX code. Thanks go to Ivan (toy) for the patches.
* Skip over /proc/<file>/status if unreadable on Linux. Thanks go to Jianjun Mao for the patch.

== 0.9.4 - 4-Mar-2014
* Added support for AIX 5.3 or later courtesy of Rick Ohnemus.
* The Solaris version now uses FFI structs instead of a packed array. It solved issues with 64-bit versions of Ruby and it's self-documenting.
* The FreeBSD version has been converted to use FFI. In addition, additional struct members have been added, and members that previously returned nil now return meaningful data.
* Support for NetBSD and OpenBSD has been temporarily dropped. Considering that the C code did not build on those platforms anyway, I doubt most of you will notice. Patches for those platforms are welcome, but only using FFI.

== 0.9.3 - 17-Mar-2013
* Fixed a bug on OSX where a long command string arg could cause a segfault. Thanks go to Nathaniel Bibler for the spot.
* Changed the gem platform from mingw to mingw32 for Windows.

== 0.9.2 - 8-Oct-2012
* Added cmdline support for OS X. Thanks go to Matthias Zirnstein for the patch.
* Warning cleanup for 1.9.
* Updated the gem platform handling. Replaced the borked string approach with a two element array for Gem::Platform.new.
* MS date strings are now parse with DateTime instead of Date.

== 0.9.1 - 3-Aug-2011
* Added the pctcpu and pctmem members for Linux.
* Added Errno::ESRCH to a rescue clause on Linux that fixed a bug where a missing entry wasn't being skipped when run as root. Thanks go to Austin Ziegler for the spot and patch.
* Fixed a build warning for Darwin.
* Updates to the test suite for both Darwin and Linux.
* Added an explicit type check for BSD for pids.
* Added nicer error messages for BSD if kvm_open fails.
* Added .core files to the clean task.
* Altered the platform settings in the Rakefile so that generated gems use 'universal' platform architectures for any particular operating system.

== 0.9.0 - 14-Oct-2009
* Changed the license to Artistic 2.0.
* Fixed a bug in the OS X code where a segfault would occur when an attempt was made to gather resource usage information on zombie processes. From now on that information is always set to nil for zombie processes. Thanks go to Tom Lianza for the spot and Philip Kromer for investigating the root cause of the failure.
* Removed the FreeBSD code that read out of /proc. It was a pain from a maintenance point of view, and most FreeBSD installs do not mount /proc by default. The FreeBSD platform now uses the same code that the other BSD platforms use.
* Fixed a bug in the BSD code where the ProcTable::Error class had the wrong parent class.
* Some major gemspec updates, including an updated license. The platform handling logic is now in the Rakefile in the 'gem' task.
* Updated the README file to include an additional acknowledgement, a license change and some minor formatting changes.
* The test-unit library was changed from a runtime to a development dependency.

== 0.8.1 - 6-Apr-2009
* The Linux and Solaris libraries now handle the possibility of a process terminating in the middle of a read more gracefully. If that happens, they merely skip to the next record, i.e. it's all or nothing. Thanks go to Heejong Lee for the spot and patch.
* Fixed a bug in the Linux version where embedded nulls were not being stripped out of the cmdline data.
* Added the comm alias back to the Solaris version. Thanks go to Jun Young Kim for the spot.

== 0.8.0 - 26-Jan-2009
* The Linux and Solaris versions of this library are now pure Ruby. Be warned, however, that only Solaris 8 and later are now supported. This may change in a future release if there's demand to support 2.6 and 2.7.
* Some Struct::ProcTable::ProcTableStruct members have changed. As a general rule they now more closely match the C struct member name. See individual platforms for more details.
* Bug fix for the cmd_args struct member on Solaris.
* Bug fixes for OS X. Added a VERSION constant, fixed struct name, and changed pct_cpu to pctcpu.
* The .new method is now explicitly illegal.
* The Struct::ProcTable::ProcTableStruct instances are now frozen. This is read-only data.
* Added the peak_page_file_usage and status members on MS Windows. The status member is always nil, but was added for completeness.
* Fixed the quota_peakpaged_pool_usage member on MS Windows.
* ProcTableError is now ProcTable::Error.
* Minor test case fix for kvm/bsd based versions.
* Added the 'time' library as a require for Windows (to parse MS date/time format strings).
* The kvm (bsd.c) implementation now works for FreeBSD 7.
* Added many more tests.
* Added some benchmarking code in the 'benchmarks' directory.
* Added a 'bench' Rake task.
* Renamed the test_ps.rb file to example_ps.rb in order to avoid any possible confusion with actual test files.
* Added an 'example' rake task to run the example file.

== 0.7.6 - 11-Jul-2007
* Fixed the starttime for Linux. Thanks go to Yaroslav Dmitriev for the spot.
* Fixed a bug in the MS Windows version within a private method that parsed an MS specific date format. This was caused by a backwards incompatible change in the Time.parse method in Ruby 1.8.6. See ruby-core: 11245 ff.
* Fixed the gemspec (I hope). Please let me know if you have problems.
* Added a Rakefile. Building, testing and installing should now be handled via Rake tasks. The install.rb file has been removed - that code is now integrated in the Rakefile.
* Minor directory layout changes and cleanup (mostly for the extconf.rb file).
* Side note - it seems that the code for OS X *does* work, at least on 10.4.10. I can only conclude that previous reports about it failing were related to bugs in OS X or were really just build issues. Apologies (and thanks, again) to David Felstead for the code. However, see the README for more information specific to OS X, as there are shortcomings.

== 0.7.5 - 23-Nov-2006
* Fixed int/long issues for Linux. Thanks go to Matt Lightner for the spot.
* Minor documentation fixes and changes to the extconf.rb file.

== 0.7.4 - 20-Nov-2006
* Added a patch that deals with the large file compilation issue on Solaris. You no longer need to build Ruby with --disable-largefile, or build a 64 bit Ruby, in order for this package to work. Thanks go to Steven Jenkins for the information that led to the patch.
* Added inline rdoc to the source code.
* Added a gemspec.
* Fixed some potential 64 bit issues (struct declarations).
* Added preliminary support for Darwin (OS X). The code was provided by David Felstead, but does not appear to compile successfully. Help wanted.

== 0.7.3 - 27-Oct-2005
* Fix for 1.8.3 and later (rb_pid_t). This should have only affected Solaris.

== 0.7.2 - 15-May-2005
* Bug fix for the FreeBSD version that reads from /proc.
* Eliminated the test bug on Linux (inexplicably caused by File.copy). The test suite should now run without segfaulting.
* Include bsd.c in tarball (oops).
* Minor test updates for FreeBSD.
* The 'pct_cpu' member for the BSD/kvm version has been changed to 'pctcpu' for consistency with other platforms.

== 0.7.1 - 8-May-2005
* Bug fixed for the cmdline info on Linux. Thanks go to Arash Abedinzadeh for the spot.
* Added an example program.
* Minor setup fix for Win32 in tc_all.rb.

== 0.7.0 - 25-Apr-2005
* Scrapped the C implementation for Windows in favor of an OLE + WMI pure Ruby approach. See documentation for details.
* Added an optional lkvm implementation for BSD users. This is automatically used if the /proc filesystem isn't found.
* Added prusage info for the Solaris version.
* Added name, eid, euid, gid and guid information for Linux. Thanks go to James Hranicky for the patch.
* Fixed some potential bugs in the Linux version. Thanks go to James Hranicky for the spot.
* Added the 'sys/top' package.
* ProcTable.fields no longer supports a block form.
* The BTIME (boot time) information has been removed from the Linux version. If you want that information, use sys-uptime instead.
* The .html and .rd files have been removed. You can generate html on your own with rdoc if you like.
* Some code cleanup on the C side of the house.
* Most documents made rdoc friendly.
* Renamed 'install_pure_ruby.rb' to just 'install.rb'.
* Removed the 'INSTALL' file. Installation instructions are in the README.
* Some test suite cleanup and reorganization.
* Moved project to RubyForge.

== 0.6.4 - 31-Mar-2004
* Fixed a bug in the pure Ruby version for Win32. Thanks go to Mark Hudson for the spot.
* Fixed a bug in the C implementation for Win32 where the cmdline and path values were sometimes wrong for running processes. Thanks go to Park Heesob for the fix.
* Updated the VERSION constant and removed the VERSION class method in the pure Ruby version for Win32.
* Updated install_pure_ruby.rb and test.rb scripts.
* Updated warranty information.
* The extconf.rb script has been revamped. See the INSTALL and README files for important changes since the last release.
* The start ProcInfo struct member on Solaris, HP-UX and FreeBSD is now a Time object, not a Fixnum/Bignum.
* Modified linux.c yet again to make gcc happy when it comes to multi-line string literals.
* Minor change to way process state is handled on HP-UX.
* Documentation additions and updates, including warranty information.

== 0.6.3 - 24-Feb-2004
* Fixed a bug in the Solaris version where the cmd_args array did not necessarily contain data on 2.7 and later. The current patch still does not quite fix the problem for 2.6 and earlier but can be easily derived manually by parsing the cmdline string.

== 0.6.2 - 20-Jan-2004
* Fixed a small memory leak in the solaris version.

== 0.6.1 - 31-Dec-2003
* Fixed a minor bug in the cmdline field on Linux where a blank character was being appended to the end of the field.
* Fixed a minor annoyance where the windows.rb file was being copied into the Ruby lib directory on install.
* Added a test_memleak.rb file. Currently only supported on Linux and only does a file descriptor count check. I plan to expand this to other platforms in the future.
* Minor test suite changes
* MANIFEST correction and update.

== 0.6.0 - 22-Oct-2003
* Significant API change (and thus, a version jump) - only a single argument is now accepted to the ps() method, and only a PID (Fixnum) is regarded as a valid argument.
* Calling ps() with a pid returns a single ProcTable struct (or nil if the pid is not found), instead of a one element array.
* Argument to ps() now works properly on HP-UX and Win32.
* Removed the '#include <sys/types32.h>' in sunos.h. It wasn't needed and you're not supposed to include it directly.
* Fixed 2.6 compatibility issue with regards to cmdline on Solaris.
* Removed the ProcStatException completely on Linux. There was no reason to fail on a directory read for /proc/xxx/stat. If the read fails (meaning the process died in the middle of collecting info for it), it is simply ignored.
* The ttynum bug on HPUX has been fixed. In addition, the return value for this field is now a string rather than an int and the field name has been changed to "ttydev".
* The ttynum field has been changed to ttydev on Solaris and HPUX. On Solaris, the ttydev is now reported as -1 if there is no associated tty. In a future release, Solaris and the other *nix platforms will be changed so that ttydev is always a device name (i.e String).
* Added plain text documentation for all platforms.
* Some test suite cleanup.
* Changed .rd2 extension to just '.rd'.
== 0.5.2 - 18-Jul-2003
* Modified cmdline to extend past the traditional 80 character limit on Solaris, where possible (Solaris 2.6+ only).
* Added the cmdline_args and num_args fields on Solaris, which returns an array of cmdline arguments and the number of cmdline arguments, respectively.
* Minor modification to fields() method, in addition to warning cleanup for Solaris.
* Changed "defunct" state string to "zombie" for Solaris.
* Should cleanly compile with -Wall -W now (gcc) on Solaris.
* Added solaris.txt to doc directory.
* MANIFEST corrections.

== 0.5.1 - 16-Jul-2003
* Fixed a nasty file descriptor bug in the Linux code, where file descriptors were continuously being used up.
* Added the BTIME (boot time) constant for Linux.
* Fixed up the test/test.rb file a bit.
* Added BTIME tests to tc_linux.rb.

== 0.5.0 - 11-Jul-200
* Added HP-UX support!
* Note that passing PID's or strings as arguments to ps() is not supported in the HP-UX version. This functionality will be stripped out of the other versions in a future release. See the README file for more details.
* Removed the VERSION() class method. Use the constant instead.
* Separated the rd docs from their respective source files. Now in the doc directory.
* Got rid of the interactive html generation in extconf.rb.
* Changed License to Artistic.

== 0.4.3 - 30-May-2003
* Added a version.h file to store the version number. Modified all of the C source files to use that instead of hard coding the version everywhere.
* Added a generic test.rb script for those without TestUnit installed, or just futzing in general. Modified the extconf.rb script to copy this instead of writing an inline HERE document.
* Modified extconf.rb so that it builds with mingw or cygwin. Thanks go to Peter Fischer for the spot and patch.
* Modified test suite to work with TestUnit 0.1.6 or 0.1.8.

== 0.4.2 - 14-Apr-2003
* Added pure Ruby version for Win32 - thanks Park Heesob.
* Modified extconf.rb file to handle pure Ruby versions.
* Added install_pure_ruby.rb file, an alternate installation script for pure Ruby versions.

== 0.4.1 - 31-Mar-2003
* Added support for Solaris 2.5.x.
* All exceptions are now a direct subclass of StandardError.
* Value returned for wchan now more meaningful (2.5.x only for now).
* Fixed the start, utime and ctime for FreeBSD.
* Minor fix to FreeBSD test suite.
* Some changes to extconf.rb.
* Minor doc changes.
* Added License and Copyright info.

== 0.4.0 - 10-Mar-2003
* Added MS Windows support (non-cygwin).
* Added environment information for Linux version.
* Added real exceptions (type depends on platform).
* Added a test suite (for those with testunit installed).
* Removed the sys-uname requirement.
* Heavily modified the extconf.rb script.
* Changed "Changelog" to "CHANGES" and "Manifest" to "MANIFEST".
* Added a VERSION constant and class method.
* Minor internal directory layout change (put 'os' under 'lib').
* Changed package name to lower case.
* Doc changes, including license information.

== 0.3.1 - 16-Aug-2002
* Added a "comm" field to the sunos version. I am going to try to make this a common field for all platforms to help reduce RUBY_PLATFORM checking.
* Fixed the release date for 0.3.0 (was accidentally marked *July*).
* Added an INSTALL file.
* Minor documentation change to the sunos.c source file.

== 0.3.0 - 11-Aug-2002
* Added FreeBSD support!
* Struct name changed to just "ProcTableStruct" to be compliant with future versions of Ruby.
* The ps() function now returns an array of ProcTableStruct's in lvalue context.
* Fixed the ability to search by process name in Linux.
* Modified Linux "comm" field to strip parenthesis.
* Some doc changes/additions.
* Added Sean Chittenden to the "Acknowledgements" section. Sean provided me with access to a FreeBSD box, which is how I was able to provide FreeBSD support. Thanks Sean!

== 0.2.0 - 19-Jul-2002
* Added the ability to search by process name.
* test.rb modified to be cross-platform.
* Solaris - fixed bug with fname (was accidentally called "name").

== 0.1.0 - 2-Jul-2002
- Initial release.
Found in path(s):
* /opt/cola/permits/1156166336_1634058741.04/0/sys-proctable-1-0-0-universal-linux-tar-gz/sys-proctable-1.0.0-universal-linux/CHANGES

1.1279 go-msgpack 0.5.5
1.1279.1 Available under license:
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1.1280 lvm2 2.02.180 10.el7_6.8
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1.1281 tracer 0.1.0

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1.1282 yajl-ruby 1.3.1

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1.1283 go-autorest-to 0.2.0

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1.1284 x-sync 0.0.0-20190911185100-cd5d95a43a6e

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1.1285 systemd 219 19.el7

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That's all there is to it!
(This file is under construction.)~*- text -*~

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).
H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.1288 kube-proxy 1.18.6

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1.1304 alpine-baselayout 3.2.0-r8

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jar/net/minidev/json/writer/DefaultMapperCollection.java
*/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
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1.1306 python 2.7.11rc1

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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[This is the first released version of the library GPL. It is
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1.1330 ncurses 5.7 3.20090208.el6

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# Originally written by Per Bothner <per@bothner.com>.
Please send patches to <config-patches@gnu.org>. Submit a context diff and a properly formatted ChangeLog entry.

This script attempts to guess a canonical system name similar to config.sub. If it succeeds, it prints the system name on stdout, and exits with 0. Otherwise, it exits with 1.

The plan is that this can be called by configure scripts if you don't specify an explicit build system type.

***************************************************************************

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1.1331 ethtool 4.5 3.el7

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```
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```

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```
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```

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1.1332 path-py 8.2.1

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* /opt/cola/permits/1215072386_1634328958.59/0/path-py-8-2-1-tar-gz/path.py-8.2.1/path.py
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* /opt/cola/permits/1215072386_1634328958.59/0/path-py-8-2-1-tar-gz/path.py-8.2.1/setup.py
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Metadata-Version: 1.1
Name: path.py
Version: 8.2.1
Summary: A module wrapper for os.path
Home-page: https://github.com/jaraco/path.py
Author: Jason R. Coombs
Author-email: jaraco@jaraco.com
License: UNKNOWN
Description: path.py

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Documentation is `hosted with PyPI <https://pythonhosted.org/path.py/>`

Guides and Testimonials
========================

Yasoob has written the Python 101 `Writing a Cleanup Script` based on ``path.py``.

Installing
==========

Path.py may be installed using `setuptools`, `distribute`, or `pip`

```
pip install path.py
```

The latest release is always updated to the `Python Package Index`.

```
You may also always download the source distribution (zip/tarball), extract it, and run `python setup.py` to install it.
```

Development
============

To install an in-development version, use the Github links to clone or download a snapshot of the latest code. Alternatively, if you have git installed, you may be able to use `pip` or `easy_install` to install directly from the repository:

```
pip install git+https://github.com/jaraco/path.py.git
```

Testing
=======

Tests are continuously run by Travis-CI: [BuildStatus]_

[BuildStatus] image: https://secure.travis-ci.org/jaraco/path.py.png

.. _BuildStatus: http://travis-ci.org/jaraco/path.py

To run the tests, refer to the `.travis.yml` file for the steps run on the Travis-CI hosts.

Releasing
=========

Tagged releases are automatically published to PyPI by Travis-CI, assuming the Python 3 build passes.
Platform: UNKNOWN  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: MIT License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
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1.1333 kubernetes-client 0.20.4
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1.1334 vault 0.6.5 1
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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"
    SHA           *string  `json:"sha,omitempty"
    Size         *int     `json:"size,omitempty"
    URL          *string  `json:"url,omitempty"
    HTMLURL      *string  `json:"html_url,omitempty"
    GitURL       *string  `json:"git_url,omitempty"
    DownloadURL  *string  `json:"download_url,omitempty"
    Type        *string  `json:"type,omitempty"
    Content     *string  `json:"content,omitempty"
    Encoding    *string  `json:"encoding,omitempty"
    License     *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url,omitempty"
    SPDXID         *string   `json:"spdx_id,omitempty"
    HTMLURL        *string   `json:"html_url,omitempty"
    Featured       *bool     `json:"featured,omitempty"
    Description    *string   `json:"description,omitempty"
    Implementation *string   `json:"implementation,omitempty"
    Permissions    *[]string `json:"permissions,omitempty"
    Conditions    *[]string `json:"conditions,omitempty"
    Limitations    *[]string `json:"limitations,omitempty"
    Body           *string   `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := make([]*License, 0)
    resp, err := s.client.Do(req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.1336 python 2.7.5 76.el7

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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History of the software
========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
http://www.python.org/psf/) was formed, a non-profit organization created
specifically to own Python-related Intellectual Property. Zope Corporation is a
sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org/ for the Open
Source Definition). Historically, most, but not all, Python releases have also
been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite.
(section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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-------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

XML Remote Procedure Calls
---------------------------

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test_epoll
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-------------

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---------------

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The following artifacts are EPL.
* org.eclipse.jetty.orbit.org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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1.1348 pyflakes 1.2.3
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1.1349 httpcomponents-client 4.5.13
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1.1350 python-setuptools 18.2
1.1350.1 Available under license :

No license file was found, but licenses were detected in source scan.

========
CHANGES
========

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18.2
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* Issue #412: More efficient directory search in `find_packages`.

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18.1
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* Upgrade to vendored packaging 15.3.

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18.0.1
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* Issue #401: Fix failure in test suite.

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18.0
---

* Dropped support for builds with Pyrex. Only Cython is supported.
* Issue #288: Detect Cython later in the build process, after `setup_requires` dependencies are resolved.

Projects backed by Cython can now be readily built with a `setup_requires` dependency. For example::
ext = setuptools.Extension('mylib', ['src/CythonStuff.pyx', 'src/CStuff.c'])
setuptools.setup(
    ...
    ext_modules=[ext],
    setup_requires=['cython'],
)

For compatibility with older versions of setuptools, packagers should still include `src/CythonMod.c` in the source distributions or require that Cython be present before building source distributions. However, for systems with this build of setuptools, Cython will be downloaded on demand.

* Issue #396: Fixed test failure on OS X.
* Pull Request #136: Remove excessive quoting from shebang headers for Jython.

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17.1.1
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* Backed out unintended changes to pkg_resources, restoring removal of deprecated imp module (`ref <https://bitbucket.org/pypa/setuptools/commits/f572ee9563d647fa8d4fffc534f2af8070ea07a8b#comment-1881283>`_).

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17.1
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* Issue #380: Add support for range operators on environment marker evaluation.

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17.0
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* Issue #378: Do not use internal importlib._bootstrap module.
* Issue #390: Disallow console scripts with path separators in the name. Removes unintended functionality and brings behavior into parity with pip.

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16.0
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* Pull Request #130: Better error messages for errors in parsed requirements.
* Pull Request #133: Removed `setuptools.tests` from the installed packages.

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15.2

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* Issue #373: Provisionally expose `'pkg_resources._initialize_master_working_set` allowing for imperative re-initialization of the master working set.

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15.1

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* Updated to Packaging 15.1 to address Packaging #28.
* Fix `setuptools.sandbox._execfile()` with Python 3.1.

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15.0

----

* Pull Request #126: DistributionNotFound message now lists the package or packages that required it. E.g.:`

```
pkg_resources.DistributionNotFound: The 'colorama>=0.3.1' distribution was not found and is required by smlib.log.
```

Note that zc.buildout once depended on the string rendering of this message to determine the package that was not found. This expectation has since been changed, but older versions of buildout may experience problems. See Buildout #242 for details.

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14.3.1

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* Issue #364: Replace deprecated usage with recommended usage of `EntryPoint.load`.

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14.3

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* Issue #254: When creating temporary egg cache on Unix, use mode 755 for creating the directory to avoid the subsequent warning if
the directory is group writable.

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14.2
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* Issue #137: Update `Distribution.hashcmp` so that Distributions with None for pyversion or platform can be compared against Distributions defining those attributes.

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14.1.1
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* Issue #360: Removed undesirable behavior from test runs, preventing write tests and installation to system site packages.

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14.1
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* Pull Request #125: Add ``__ne__`` to Requirement class.
* Various refactoring of easy_install.

-----

14.0
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* Bootstrap script now accepts ``--to-dir`` to customize save directory or allow for re-use of existing repository of setuptools versions. See Pull Request #112 for background.
* Issue #285: ``easy_install`` no longer will default to installing packages to the "user site packages" directory if it is itself installed there. Instead, the user must pass ``--user`` in all cases to install packages to the user site packages. This behavior now matches that of "pip install". To configure an environment to always install to the user site packages, consider using the "install-dir" and "scripts-dir" parameters to easy_install through an appropriate distutils config file.

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13.0.2
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* Issue #359: Include pytest.ini in the sdist so invocation of py.test on the sdist honors the pytest configuration.
13.0.1
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Re-release of 13.0. Intermittent connectivity issues caused the release process to fail and PyPI uploads no longer accept files for 13.0.

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13.0
----

* Issue #356: Back out Pull Request #119 as it requires Setuptools 10 or later as the source during an upgrade.
* Removed build_py class from setup.py. According to 892f439d216e, this functionality was added to support upgrades from old Distribute versions, 0.6.5 and 0.6.6.

----
12.4
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* Pull Request #119: Restore writing of `setup_requires` to metadata (previously added in 8.4 and removed in 9.0).

----
12.3
----

* Documentation is now linked using the rst.linker package.
* Fix `setup_requires` with Python 2.6 and 2.7.
* Issue #354. Added documentation on building setuptools documentation.

----
12.2
----

* Issue #345: Unload all modules under pkg_resources during `ez_setup.use_setuptools()`.
* Issue #336: Removed deprecation from `ez_setup.use_setuptools`, as it is clearly still used by buildout's bootstrap. `ez_setup` remains deprecated for use by individual packages.
* Simplified implementation of `ez_setup.use_setuptools`.

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12.1
----
* Pull Request #118: Soften warning for non-normalized versions in Distribution.

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12.0.5

-----

* Issue #339: Correct Attribute reference in `cant_write_to_target`.
* Issue #336: Deprecated `ez_setup.use_setuptools`.

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12.0.4

-----

* Issue #335: Fix script header generation on Windows.

-----

12.0.3

-----

* Fixed incorrect class attribute in `install_scripts`. Tests would be nice.

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12.0.2

-----

* Issue #331: Fixed `install_scripts` command on Windows systems corrupting the header.

-----

12.0.1

-----

* Restore `setuptools.command.easy_install.sys_executable` for pbr compatibility. For the future, tools should construct a CommandSpec explicitly.

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12.0

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* Issue #188: Setuptools now support multiple entities in the value for `build.executable`, such that an executable of `/usr/bin/env my-python` may be specified. This means that systems with a specified executable whose name has spaces in the path must be updated to escape or quote that value.
* Deprecated `easy_install.ScriptWriter.get_writer`, replaced by `best()` with slightly different semantics (no force_windows flag).
11.3.1

* Issue #327: Formalize and restore support for any printable character in an entry point name.

11.3

* Expose `EntryPoint.resolve` in place of `EntryPoint._load`, implementing the simple, non-requiring load. Deprecated all uses of `EntryPoint._load` except for calling with no parameters, which is just a shortcut for `ep.require(); ep.resolve();`.

Apps currently invoking `ep.load(require=False)` should instead do the following if wanting to avoid the deprecating warning::

```python
getattr(ep, "resolve", lambda: ep.load(require=False))()
```

11.2

* Pip #2326: Report deprecation warning at stacklevel 2 for easier diagnosis.

11.1

* Issue #281: Since Setuptools 6.1 (Issue #268), a `ValueError` would be raised in certain cases where `VersionConflict` was raised with two arguments, which occurred in `pkg_resources.WorkingSet.find`. This release adds support for indicating the dependent packages while maintaining support for a `VersionConflict` when no dependent package context is known. New unit tests now capture the expected interface.

11.0

Interop #3: Upgrade to Packaging 15.0; updates to PEP 440 so that >1.7 does not exclude 1.7.1 but does exclude 1.7.0 and 1.7.0.post1.

10.2.1
* Issue #323: Fix regression in entry point name parsing.

----

10.2

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* Deprecated use of EntryPoint.load(require=False). Passing a boolean to a function to select behavior is an anti-pattern. Instead use `Entrypoint._load()`.

* Substantial refactoring of all unit tests. Tests are now much leaner and re-use a lot of fixtures and contexts for better clarity of purpose.

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10.1

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* Issue #320: Added a compatibility implementation of `sdist._default_revctrl`
so that systems relying on that interface do not fail (namely, Ubuntu 12.04 and similar Debian releases).

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10.0.1

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* Issue #319: Fixed issue installing pure distutils packages.

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10.0

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* Issue #313: Removed built-in support for subversion. Projects wishing to retain support for subversion will need to use a third party library. The extant implementation is being ported to `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_.

* Issue #315: Updated setuptools to hide its own loaded modules during installation of another package. This change will enable setuptools to upgrade (or downgrade) itself even when its own metadata and implementation change.

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9.1

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* Prefer vendored packaging library `as recommended
  <https://github.com/jaraco/setuptools/commit/170657b68f4b92e7e1bf82f5e19a831f5744af67#commitcomment-9109448>`_.

---
* Issue #312: Restored presence of pkg_resources API tests (doctest) to sdist.

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9.0
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* Issue #314: Disabled support for `setup_requires` metadata to avoid issue
  where setuptools was unable to upgrade over earlier versions.

---

8.4
---

* Pull Request #106: Now write `setup_requires` metadata.

---

8.3
---

* Issue #311: Decoupled pkg_resources from setuptools once again.
  `pkg_resources` is now a package instead of a module.

---

8.2.1
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* Issue #306: Suppress warnings about Version format except in select scenarios
  (such as installation).

---

8.2
---

* Pull Request #85: Search egg-base when adding egg-info to manifest.

---

8.1
---

* Upgrade `packaging` to 14.5, giving preference to "rc" as designator for
  release candidates over "c".
* PEP-440 warnings are now raised as their own class,
  `pkg_resources.PEP440Warning`, instead of RuntimeWarning.
* Disabled warnings on empty versions.

-----

8.0.4
-----

* Upgrade `package` to 14.4, fixing an error where there is a
different result for if 2.0.5 is contained within >2.0dev and >2.0.dev even
though normalization rules should have made them equal.

* Issue #296: Add warning when a version is parsed as legacy. This warning will
make it easier for developers to recognize deprecated version numbers.

-----

8.0.3
-----

* Issue #296: Restored support for `__hash__` on parse_version results.

-----

8.0.2
-----

* Issue #296: Restored support for `__getitem__` and sort operations on
parse_version result.

-----

8.0.1
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* Issue #296: Restore support for iteration over parse_version result, but
deprecated that usage with a warning. Fixes failure with buildout.

---

8.0
---

* Implement `PEP 440 <http://legacy.python.org/dev/peps/pep-0440/>`_ within
pkg_resources and setuptools. This change
deprecates some version numbers such that they will no longer be installable
without using the `===` escape hatch. See `the changes to test_resources
<https://bitbucket.org/pypa/setuptools/commits/dcd552da643c4448056de84c73d56da6d70769d5#chg-
ssetuptools/tests/test_resources.py>`_
for specific examples of version numbers and specifiers that are no longer
supported. Setuptools now "vendors" the `packaging

---

7.0
* Issue #80, Issue #209: Eggs that are downloaded for `setup_requires`, `test_requires`, etc. are now placed in a `./.eggs` directory instead of directly in the current directory. This choice of location means the files can be readily managed (removed, ignored). Additionally, later phases or invocations of setuptools will not detect the package as already installed and ignore it for permanent install (See #209).

This change is indicated as backward-incompatible as installations that depend on the installation in the current directory will need to account for the new location. Systems that ignore `*.egg` will probably need to be adapted to ignore `*.eggs`. The files will need to be manually moved or will be retrieved again. Most use cases will require no attention.

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6.1
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* Issue #268: When resolving package versions, a VersionConflict now reports which package previously required the conflicting version.

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6.0.2
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* Issue #262: Fixed regression in pip install due to egg-info directories being omitted. Re-opens Issue #118.

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6.0.1
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* Issue #259: Fixed regression with namespace package handling on `single version, externally managed` installs.

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6.0
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* Issue #100: When building a distribution, Setup tools will no longer match default files using platform-dependent case sensitivity, but rather will only match the files if their case matches exactly. As a result, on Windows and other case-insensitive file systems, files with names such as `readme.txt` or `README.TXT` will be omitted from the distribution and a warning will be issued indicating that 'README.txt' was not found. Other filenames affected are:
- README.rst
- README
- setup.cfg
- setup.py (or the script name)
- test/test*.py

Any users producing distributions with filenames that match those above case-insensitively, but not case-sensitively, should rename those files in their repository for better portability.

* Pull Request #72: When using `single_version_externally_managed`, the exclusion list now includes Python 3.2 `__pycache__` entries.
* Pull Request #76 and Pull Request #78: lines in top_level.txt are now ordered deterministically.
* Issue #118: The egg-info directory is now no longer included in the list of outputs.
* Issue #258: Setuptools now patches distutils msvc9compiler to recognize the specially-packaged compiler package for easy extension module support on Python 2.6, 2.7, and 3.2.

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5.8
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* Issue #237: `pkg_resources` now uses explicit detection of Python 2 vs. Python 3, supporting environments where builtins have been patched to make Python 3 look more like Python 2.

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5.7
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* Issue #240: Based on real-world performance measures against 5.4, zip manifests are now cached in all circumstances. The `PKG_RESOURCES_CACHE_ZIP_MANIFESTS` environment variable is no longer relevant. The observed "memory increase" referenced in the 5.4 release notes and detailed in Issue #154 was likely not an increase over the status quo, but rather only an increase over not storing the zip info at all.

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5.6
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* Issue #242: Use absolute imports in svn_utils to avoid issues if the installing package adds an xml module to the path.

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5.5.1
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* Issue #239: Fix typo in 5.5 such that fix did not take.

---

5.5

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* Issue #239: setuptools now includes the setup_requires directive on Distribution objects and validates the syntax just like install_requires and tests_require directives.

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5.4.2

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* Issue #236: Corrected regression in execfile implementation for Python 2.6.

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5.4.1

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* Python #7776: (ssl_support) Correct usage of host for validation when tunneling for HTTPS.

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5.4

---

* Issue #154: `pkg_resources` will now cache the zip manifests rather than re-processing the same file from disk multiple times, but only if the environment variable `PKG_RESOURCES_CACHE_ZIP_MANIFESTS` is set. Clients that package many modules in the same zip file will see some improvement in startup time by enabling this feature. This feature is not enabled by default because it causes a substantial increase in memory usage.

---

5.3

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* Issue #185: Make svn tagging work on the new style SVN metadata. Thanks cazabon!

* Prune revision control directories (e.g. .svn) from base path as well as sub-directories.

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5.2

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* Some code refactoring and cleanup was done with no intended behavioral changes.
* During install_egg_info, the generated lines for namespace package .pth files are now processed even during a dry run.

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5.1
---

* Issue #202: Implemented more robust cache invalidation for the ZipImporter, building on the work in Issue #168. Special thanks to Jurko Gospodnetic and PJE.

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5.0.2
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* Issue #220: Restored script templates.

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5.0.1
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* Renamed script templates to end with .tmpl now that they no longer need to be processed by 2to3. Fixes spurious syntax errors during build/install.

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5.0
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* Issue #218: Re-release of 3.8.1 to signal that it supersedes 4.x.
* Incidentally, script templates were updated not to include the triple-quote escaping.

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3.7.1 and 3.8.1 and 4.0.1
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* Issue #213: Use legacy StringIO behavior for compatibility under pbr.
* Issue #218: Setuptools 3.8.1 superseded 4.0.1, and 4.x was removed from the available versions to install.

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4.0
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* Issue #210: `setup.py develop` now copies scripts in binary mode rather than text mode, matching the behavior of the `install` command.

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3.8
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* Extend Issue #197 workaround to include all Python 3 versions prior to 3.2.2.

---
3.7
---

* Issue #193: Improved handling of Unicode filenames when building manifests.

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3.6
---

* Issue #203: Honor proxy settings for Powershell downloader in the bootstrap routine.

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3.5.2
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* Issue #168: More robust handling of replaced zip files and stale caches. Fixes ZipImportError complaining about a 'bad local header'.

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3.5.1
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* Issue #199: Restored `install._install` for compatibility with earlier NumPy versions.

---
3.5
---

* Issue #195: Follow symbolic links in find_packages (restoring behavior broken in 3.4).
* Issue #197: On Python 3.1, PKG-INFO is now saved in a UTF-8 encoding instead of `sys.getpreferredencoding` to match the behavior on Python 2.6-3.4.
* Issue #192: Preferred bootstrap location is now https://bootstrap.pypa.io/ez_setup.py (mirrored from former location).
* Issue #184: Correct failure where find_package over-matched packages when directory traversal isn't short-circuited.

* Issue #183: Fix additional regression in test command on Python 3.1.

* Issue #180: Fix regression in test command not caught by py.test-run tests.

* Issue #176: Add parameter to the test command to support a custom test runner: --test-runner or -r.
* Issue #177: Now assume most common invocation to install command on platforms/environments without stack support (issuing a warning). Setuptools now installs naturally on IronPython. Behavior on CPython should be unchanged.

* Add `include` parameter to `setuptools.find_packages()`.

* Pull Request #39: Add support for C++ targets from Cython `.pyx` files.
* Issue #162: Update dependency on certifi to 1.0.1.
* Issue #164: Update dependency on wincertstore to 0.2.

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3.1
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* Issue #161: Restore Features functionality to allow backward compatibility (for Features) until the uses of that functionality is sufficiently removed.

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3.0.2
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* Correct typo in previous bugfix.

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3.0.1
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* Issue #157: Restore support for Python 2.6 in bootstrap script where `zipfile.ZipFile` does not yet have support for context managers.

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3.0
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* Issue #125: Prevent Subversion support from creating a `~/.subversion` directory just for checking the presence of a Subversion repository.
* Issue #12: Namespace packages are now imported lazily. That is, the mere declaration of a namespace package in an egg on `sys.path` no longer causes it to be imported when `pkg_resources` is imported. Note that this change means that all of a namespace package's `__init__.py` files must include a `declare_namespace()` call in order to ensure that they will be handled properly at runtime. In 2.x it was possible to get away without including the declaration, but only at the cost of forcing namespace packages to be imported early, which 3.0 no longer does.
* Issue #148: When building (bdist_egg), setuptools no longer adds `__init__.py` files to namespace packages. Any packages that rely on this behavior will need to create `__init__.py` files and include the `declare_namespace()`.
* Issue #7: Setuptools itself is now distributed as a zip archive in addition to tar archive. `ez_setup.py` now uses zip archive. This approach avoids the potential security vulnerabilities presented by use of tar archives in `ez_setup.py`. It also leverages the security features added to ZipFile.extract in Python 2.7.4.
* Issue #65: Removed deprecated Features functionality.
* Pull Request #28: Remove backport of `__bytecode_filenames` which is available in Python 2.6 and later, but also has better compatibility with
Python 3 environments.
* Issue #156: Fix spelling of __PYVENV_LAUNCHER__ variable.

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2.2
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* Issue #141: Restored fix for allowing setup_requires dependencies to override installed dependencies during setup.
* Issue #128: Fixed issue where only the first dependency link was honored in a distribution where multiple dependency links were supplied.

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2.1.2
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* Issue #144: Read long_description using codecs module to avoid errors installing on systems where LANG=C.

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2.1.1
-----

* Issue #139: Fix regression in re_finder for CVS repos (and maybe Git repos as well).

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2.1
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* Issue #131: Fix RuntimeError when constructing an egg fetcher.

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2.0.2
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* Fix NameError during installation with Python implementations (e.g. Jython) not containing parser module.
* Fix NameError in ``sdist:re_finder``.

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2.0.1
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* Issue #124: Fixed error in list detection in upload_docs.
* Issue #121: Exempt lib2to3 pickled grammars from DirectorySandbox.
* Issue #41: Dropped support for Python 2.4 and Python 2.5. Clients requiring setuptools for those versions of Python should use setuptools 1.x.
* Removed ``setuptools.command.easy_install.HAS_USER_SITE``. Clients expecting this boolean variable should use ``site.ENABLE_USER_SITE`` instead.
* Removed ``pkg_resources.ImpWrapper``. Clients that expected this class should use ``pkgutil.ImpImporter`` instead.

1.4.2

* Issue #116: Correct TypeError when reading a local package index on Python 3.

1.4.1

* Issue #114: Use ``sys.getfilesystemencoding`` for decoding config in ``bdist_wininst`` distributions.

* Issue #105 and Issue #113: Establish a more robust technique for determining the terminal encoding:

1. Try ``getpreferredencoding``
2. If that returns US_ASCII or None, try the encoding from ``getdefaultlocale``. If that encoding was a "fallback" because Python could not figure it out from the environment or OS, encoding remains unresolved.
3. If the encoding is resolved, then make sure Python actually implements the encoding.
4. On the event of an error or unknown codec, revert to fallbacks (UTF-8 on Darwin, ASCII on everything else).
5. On the encoding is 'mac-roman' on Darwin, use UTF-8 as 'mac-roman' was a bug on older Python releases.

On a side note, it would seem that the encoding only matters for when SVN does not yet support --xml and when getting repository and svn version numbers. The --xml technique should yield UTF-8 according to some messages on the SVN mailing lists. So if the version numbers are always 7-bit ASCII clean, it may be best to only support the file parsing methods for legacy SVN releases and support for SVN without the subprocess command.
would simple go away as support for the older SVNs does.

1.4

* Issue #27: ``easy_install`` will now use credentials from .pypirc if present for connecting to the package index.
* Pull Request #21: Omit unwanted newlines in ``package_index._encode_auth`` when the username/password pair length indicates wrapping.

1.3.2

* Issue #99: Fix filename encoding issues in SVN support.

1.3.1

* Remove exuberant warning in SVN support when SVN is not used.

1.3

* Address security vulnerability in SSL match_hostname check as reported in Python #17997.
* Prefer `backports.ssl_match_hostname <https://pypi.python.org/pypi/backports.ssl_match_hostname>`_ for backport implementation if present.
* Correct NameError in ``ssl_support`` module (``socket.error``).

1.2

* Issue #26: Add support for SVN 1.7. Special thanks to Philip Thiem for the contribution.
* Issue #93: Wheels are now distributed with every release. Note that as reported in Issue #108, as of Pip 1.4, scripts aren't installed properly from wheels. Therefore, if using Pip to install setuptools from a wheel, the ``easy_install`` command will not be available.
* Setuptools "natural" launcher support, introduced in 1.0, is now officially supported.
1.1.7
-----

* Fixed behavior of NameError handling in 'script template (dev).py' (script launcher for 'develop' installs).
* ``ez_setup.py`` now ensures partial downloads are cleaned up following a failed download.
* Distribute #363 and Issue #55: Skip an sdist test that fails on locales other than UTF-8.

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1.1.6
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* Distribute #349: ``sandbox.execfile`` now opens the target file in binary mode, thus honoring a BOM in the file when compiled.

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1.1.5
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* Issue #69: Second attempt at fix (logic was reversed).

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1.1.4
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* Issue #77: Fix error in upload command (Python 2.4).

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1.1.3
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* Fix NameError in previous patch.

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1.1.2
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* Issue #69: Correct issue where 404 errors are returned for URLs with fragments in them (such as #egg=).

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1.1.1
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* Issue #75: Add `--insecure` option to ez_setup.py to accommodate environments where a trusted SSL connection cannot be validated.
* Issue #76: Fix AttributeError in upload command with Python 2.4.

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1.1

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* Issue #71 (Distribute #333): EasyInstall now puts less emphasis on the condition when a host is blocked via `--allow-hosts`.
* Issue #72: Restored Python 2.4 compatibility in `ez_setup.py`.

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1.0

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* Issue #60: On Windows, Setuptools supports deferring to another launcher, such as Vinay Sajip’s `pylauncher <https://bitbucket.org/pypa/pylauncher>`_ (included with Python 3.3) to launch console and GUI scripts and not install its own launcher executables. This experimental functionality is currently only enabled if the ``SETUPTOOLS_LAUNCHER`` environment variable is set to "natural". In the future, this behavior may become default, but only after it has matured and seen substantial adoption. The ``SETUPTOOLS_LAUNCHER`` also accepts "executable" to force the default behavior of creating launcher executables.
* Issue #63: Bootstrap script (ez_setup.py) now prefers Powershell, curl, or wget for retrieving the Setuptools tarball for improved security of the install. The script will still fall back to a simple `urlopen` on platforms that do not have these tools.
* Issue #65: Deprecated the "Features" functionality.
* Issue #52: In `VerifyingHTTPSConn`, handle a tunneled (proxied) connection.

Backward-Incompatible Changes
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This release includes a couple of backward-incompatible changes, but most if not all users will find 1.0 a drop-in replacement for 0.9.

* Issue #50: Normalized API of environment marker support. Specifically, removed line number and filename from SyntaxErrors when returned from `pkg_resources.invalid_marker`. Any clients depending on the specific string representation of exceptions returned by that function may need to be updated to account for this change.
* Issue #50: SyntaxErrors generated by `pkg_resources.invalid_marker` are normalized for cross-implementation consistency.
* Removed ``--ignore-conflicts-at-my-risk`` and ``--delete-conflicting`` options to easy_install. These options have been deprecated since 0.6a11.

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* Issue #53: Fix NameErrors in `_vcs_split_rev_from_url`.

* Issue #49: Correct AttributeError on PyPy where a hashlib.HASH object does not have a `.name` attribute.
* Issue #34: Documentation now refers to bootstrap script in code repository referenced by bookmark.
* Add underscore-separated keys to environment markers (markerlib).

* Issue #44: Test failure on Python 2.4 when MD5 hash doesn't have a `.name` attribute.

* Python #17980: Fix security vulnerability in SSL certificate validation.

* Issue #43: Fix issue (introduced in 0.9.1) with version resolution when upgrading over other releases of Setuptools.

* Issue #42: Fix new `AttributeError` introduced in last fix.

* Issue #42: Fix regression where blank checksums would trigger an `AttributeError`.

Open Source Used In Secure Workload 3.6.1.1 17711
* Distribute #386: Allow other positional and keyword arguments to os.open.
* Corrected dependency on certifi mis-referenced in 0.9.

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* `package_index` now validates hashes other than MD5 in download links.

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* Code base now runs on Python 2.4 - Python 3.3 without Python 2to3 conversion.

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* Distribute #375: Yet another fix for yet another regression.

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* Distribute #375: Repair AttributeError created in last release (redo).
* Issue #30: Added test for get_cache_path.

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* Distribute #375: Repair AttributeError created in last release.

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* Issue #21: Restore Python 2.4 compatibility in `test_easy_install`.
* Distribute #375: Merged additional warning from Distribute 0.6.46.
* Now honor the environment variable `SETUPTOOLS_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT` in addition to the now deprecated `DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT`. 
0.7.4

* Issue #20: Fix comparison of parsed SVN version on Python 3.

0.7.3

* Issue #1: Disable installation of Windows-specific files on non-Windows systems.
* Use new sysconfig module with Python 2.7 or > = 3.2.

0.7.2

* Issue #14: Use markerlib when the 'parser' module is not available.
* Issue #10: 'ez_setup.py' now uses HTTPS to download setuptools from PyPI.

0.7.1

* Fix NameError (Issue #3) again - broken in bad merge.

0.7

* Merged Setuptools and Distribute. See docs/merge.txt for details.

Added several features that were slated for setuptools 0.6c12:

* Index URL now defaults to HTTPS.
* Added experimental environment marker support. Now clients may designate a PEP-426 environment marker for "extra" dependencies. Setuptools uses this feature in `"setup.py"` for optional SSL and certificate validation support on older platforms. Based on Distutils-SIG discussions, the syntax is somewhat tentative. There should probably be a PEP with a firmer spec before the feature should be considered suitable for use.
* Added support for SSL certificate validation when installing packages from an HTTPS service.

0.7b4
* Issue #3: Fixed NameError in SSL support.

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0.6.49
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* Move warning check in `get_cache_path` to follow the directory creation to avoid errors when the cache path does not yet exist. Fixes the error reported in Distribute #375.

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0.6.48
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* Correct AttributeError in `ResourceManager.get_cache_path` introduced in 0.6.46 (redo).

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0.6.47
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* Correct AttributeError in `ResourceManager.get_cache_path` introduced in 0.6.46.

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0.6.46
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* Distribute #375: Issue a warning if the PYTHON_EGG_CACHE or otherwise customized egg cache location specifies a directory that’s group- or world-writable.

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0.6.45
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* Distribute #379: `distribute_setup.py` now traps VersionConflict as well, restoring ability to upgrade from an older setuptools version.

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0.6.44
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* `distribute_setup.py` has been updated to allow Setuptools 0.7 to satisfy use_setuptools.
0.6.43
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* Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).

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0.6.42
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* External links finder no longer yields duplicate links.
* Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).

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0.6.41
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* Distribute #27: Use public api for loading resources from zip files rather than the private method "_zip_directory_cache".
* Added a new function "easy_install.get_win_launcher" which may be used by third-party libraries such as buildout to get a suitable script launcher.

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0.6.40
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* Distribute #376: brought back cli.exe and gui.exe that were deleted in the previous release.

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0.6.39
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* Add support for console launchers on ARM platforms.
* Fix possible issue in GUI launchers where the subsystem was not supplied to the linker.
* Launcher build script now refactored for robustness.
* Distribute #375: Resources extracted from a zip egg to the file system now also check the contents of the file against the zip contents during each invocation of get_resource_filename.

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0.6.38
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* Distribute #371: The launcher manifest file is now installed properly.

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0.6.37
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* Distribute #143: Launcher scripts, including easy_install itself, are now accompanied by a manifest on 32-bit Windows environments to avoid the Installer Detection Technology and thus undesirable UAC elevation described in this Microsoft article

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0.6.36
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* Pull Request #35: In Buildout #64, it was reported that under Python 3, installation of distutils scripts could attempt to copy the `__pycache__` directory as a file, causing an error, apparently only under Windows. Easy_install now skips all directories when processing metadata scripts.

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0.6.35
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Note this release is backward-incompatible with distribute 0.6.23-0.6.34 in how it parses version numbers.

* Distribute #278: Restored compatibility with distribute 0.6.22 and setuptools 0.6. Updated the documentation to match more closely with the version parsing as intended in setuptools 0.6.

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0.6.34
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* Distribute #341: 0.6.33 fails to build under Python 2.4.

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0.6.33
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* Fix 2 errors with Jython 2.5.
* Fix 1 failure with Jython 2.5 and 2.7.
* Disable workaround for Jython scripts on Linux systems.
* Distribute #336: `setup.py` no longer masks failure exit code when tests fail.
* Fix issue in pkg_resources where try/except around a platform-dependent import would trigger hook load failures on Mercurial. See pull request 32 for details.
* Distribute #341: Fix a ResourceWarning.

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0.6.32
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* Fix test suite with Python 2.6.
* Fix some DeprecationWarnings and ResourceWarnings.
* Distribute #335: Backed out `setup_requires` superceding installed requirements until regression can be addressed.

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0.6.31
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* Distribute #303: Make sure the manifest only ever contains UTF-8 in Python 3.
* Distribute #329: Properly close files created by tests for compatibility with Jython.
* Work around Jython #1980 and Jython #1981.
* Distribute #334: Provide workaround for packages that reference `sys.__stdout__` such as numpy does. This change should address `virtualenv #359 <https://github.com/pypa/virtualenv/issues/359>`_ as long as the system encoding is UTF-8 or the IO encoding is specified in the environment, i.e.::

    PYTHONIOENCODING=utf8 pip install numpy

* Fix for encoding issue when installing from Windows executable on Python 3.
* Distribute #323: Allow `setup_requires` requirements to supercede installed requirements. Added some new keyword arguments to existing pkg_resources methods. Also had to updated how __path__ is handled for namespace packages to ensure that when a new egg distribution containing a namespace package is placed on sys.path, the entries in __path__ are found in the same order they would have been in had that egg been on the path when pkg_resources was first imported.

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0.6.30
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* Distribute #328: Clean up temporary directories in distribute_setup.py.
* Fix fatal bug in distribute_setup.py.

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0.6.29
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* Pull Request #14: Honor file permissions in zip files.
* Distribute #327: Merged pull request #24 to fix a dependency problem with pip.
* Merged pull request #23 to fix https://github.com/pypa/virtualenv/issues/301.
* If Sphinx is installed, the `upload_docs` command now runs `build_sphinx` to produce uploadable documentation.
* Distribute #326: `upload_docs` provided mangled auth credentials under Python 3.
* Distribute #320: Fix check for "createable" in distribute_setup.py.
* Distribute #305: Remove a warning that was triggered during normal operations.
* Distribute #311: Print metadata in UTF-8 independent of platform.
* Distribute #303: Read manifest file with UTF-8 encoding under Python 3.
* Distribute #301: Allow to run tests of namespace packages when using 2to3.
* Distribute #304: Prevent import loop in site.py under Python 3.3.
* Distribute #283: Reenable scanning of `*.pyc` / `*.pyo` files on Python 3.3.
* Distribute #299: The develop command didn't work on Python 3, when using 2to3, as the egg link would go to the Python 2 source. Linking to the 2to3'd code in build/lib makes it work, although you will have to rebuild the module before testing it.
* Distribute #306: Even if 2to3 is used, we build in-place under Python 2.
* Distribute #307: Prints the full path when .svn/entries is broken.
* Distribute #313: Support for sdist subcommands (Python 2.7)
* Distribute #314: test_local_index() would fail an OS X.
* Distribute #310: Non-ascii characters in a namespace __init__.py causes errors.
* Distribute #218: Improved documentation on behavior of `package_data` and `include_package_data`. Files indicated by `package_data` are now included in the manifest.
* `distribute_setup.py` now allows a `--download-base` argument for retrieving distribute from a specified location.

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0.6.28

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* Distribute #294: setup.py can now be invoked from any directory.
* Scripts are now installed honoring the umask.
* Added support for .dist-info directories.
* Distribute #283: Fix and disable scanning of `*.pyc` / `*.pyo` files on Python 3.3.

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0.6.27

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* Support current snapshots of CPython 3.3.
* Distribute now recognizes README.rst as a standard, default readme file.
* Exclude 'encodings' modules when removing modules from sys.modules.
  Workaround for #285.
* Distribute #231: Don't fiddle with system python when used with buildout (bootstrap.py)
* Distribute #183: Symlinked files are now extracted from source distributions.
* Distribute #227: Easy_install fetch parameters are now passed during the
  installation of a source distribution; now fulfillment of setup_requires
  dependencies will honor the parameters passed to easy_install.

* Distribute #258: Workaround a cache issue
* Distribute #260: distribute_setup.py now accepts the --user parameter for
  Python 2.6 and later.
* Distribute #262: package_index.open_with_auth no longer throws LookupError
  on Python 3.
* Distribute #269: AttributeError when an exception occurs reading Manifest.in
  on late releases of Python.
* Distribute #272: Prevent TypeError when namespace package names are unicode
  and single-install-externally-managed is used. Also fixes PIP issue
  449.
* Distribute #273: Legacy script launchers now install with Python2/3 support.

* Distribute #249: Added options to exclude 2to3 fixers

* Distribute #244: Fixed a test
* Distribute #243: Fixed a test
* Distribute #239: Fixed a test
* Distribute #240: Fixed a test
* Distribute #241: Fixed a test
* Distribute #237: Fixed a test
* Distribute #238: easy_install now uses 64bit executable wrappers on 64bit Python
* Distribute #208: Fixed parsed_versions, it now honors post-releases as noted in the documentation
* Distribute #207: Windows cli and gui wrappers pass CTRL-C to child python process
* Distribute #227: easy_install now passes its arguments to setup.py bdist_egg
* Distribute #225: Fixed a NameError on Python 2.5, 2.4
0.6.21
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* Distribute #225: Fixed a regression on py2.4

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0.6.20
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* Distribute #135: Include url in warning when processing URLs in package_index.
* Distribute #212: Fix issue where easy_instal fails on Python 3 on windows installer.
* Distribute #213: Fix typo in documentation.

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0.6.19
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* Distribute #206: AttributeError: 'HTTPMessage' object has no attribute 'getheaders'

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0.6.18
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* Distribute #210: Fixed a regression introduced by Distribute #204 fix.

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0.6.17
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* Support 'DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT' environment variable to allow to disable installation of easy_install-${version} script.
* Support Python >=3.1.4 and >=3.2.1.
* Distribute #204: Don't try to import the parent of a namespace package in declare_namespace
* Distribute #196: Tolerate responses with multiple Content-Length headers
* Distribute #205: Sandboxing doesn't preserve working_set. Leads to setup_requires problems.

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0.6.16
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* Builds sdist gztar even on Windows (avoiding Distribute #193).
* Distribute #192: Fixed metadata omitted on Windows when package_dir specified with forward-slash.
* Distribute #195: Cython build support.
* Distribute #200: Issues with recognizing 64-bit packages on Windows.
0.6.15

* Fixed typo in bdist_egg
* Several issues under Python 3 has been solved.
* Distribute #146: Fixed missing DLL files after easy_install of windows exe package.

0.6.14

* Distribute #170: Fixed unittest failure. Thanks to Toshio.
* Distribute #171: Fixed race condition in unitests cause deadlocks in test suite.
* Distribute #143: Fixed a lookup issue with easy_install.
  Thanks to David and Zooko.
* Distribute #174: Fixed the edit mode when its used with setuptools itself

0.6.13

* Distribute #160: 2.7 gives ValueError("Invalid IPv6 URL")
* Distribute #150: Fixed using ~/.local even in a --no-site-packages virtualenv
* Distribute #163: scan index links before external links, and don't use the md5 when comparing two distributions

0.6.12

* Distribute #149: Fixed various failures on 2.3/2.4

0.6.11

* Found another case of SandboxViolation - fixed
* Distribute #15 and Distribute #48: Introduced a socket timeout of 15 seconds on url openings
* Added indexsidebar.html into MANIFEST.in
* Distribute #108: Fixed TypeError with Python3.1
* Distribute #121: Fixed --help install command trying to actually install.
* Distribute #112: Added an os.makedirs so that Tarek's solution will work.
* Distribute #133: Added --no-find-links to easy_install
* Added easy_install --user
* Distribute #100: Fixed develop --user not taking "." in PYTHONPATH into account
* Distribute #134: removed spurious UserWarnings. Patch by VanLindberg
* Distribute #138: cant_write_to_target error when setup_requires is used.
* Distribute #147: respect the sys.dont_write_bytecode flag

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0.6.10

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* Reverted change made for the DistributionNotFound exception because zc.buildout uses the exception message to get the name of the distribution.

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0.6.9

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* Distribute #90: unknown setuptools version can be added in the working set
* Distribute #87: setup.py doesn't try to convert distribute_setup.py anymore
  Initial Patch by arfrever.
* Distribute #89: added a side bar with a download link to the doc.
* Distribute #86: fixed missing sentence in pkg_resources doc.
* Added a nicer error message when a DistributionNotFound is raised.
* Distribute #80: test_develop now works with Python 3.1
* Distribute #93: upload_docs now works if there is an empty sub-directory.
* Distribute #70: exec bit on non-exec files
* Distribute #99: now the standalone easy_install command doesn't uses a
  "setup.cfg" if any exists in the working directory. It will use it only if triggered by `\``install_requires``` from a setup.py call
  (install, develop, etc).
* Distribute #101: Allowing `\``os.devnull``` in Sandbox
* Distribute #92: Fixed the "no eggs" found error with MacPort (platform.mac_ver() fails)
* Distribute #103: test_get_script_header_jython_workaround not run anymore under py3 with C or POSIX local. Contributed by Arfrever.
* Distribute #104: removed the assertion when the installation fails, with a nicer message for the end user.
* Distribute #100: making sure there's no SandboxViolation when the setup script patches setuptools.

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0.6.8

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* Added "check_packages" in dist. (added in Setuptools 0.6c11)
* Fixed the DONT_PATCH_SETUPTOOLS state.

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0.6.7

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* Distribute #58: Added --user support to the develop command
* Distribute #11: Generated scripts now wrap their call to the script entry point
  in the standard "if name == 'main'"
* Added the 'DONT_PATCH_SETUPTOOLS' environment variable, so virtualenv
  can drive an installation that doesn't patch a global setuptools.
* Reviewed unladen-swallow specific change from
  and determined that it no longer applies. Distribute should work fine with
  Unladen Swallow 2009Q3.
* Distribute #21: Allow PackageIndex.open_url to gracefully handle all cases of a
  httplib.HTTPException instead of just InvalidURL and BadStatusLine.
* Removed virtual-python.py from this distribution and updated documentation
  to point to the actively maintained virtualenv instead.
* Distribute #64: use_setuptools no longer rebuilds the distribute egg every
  time it is run
* use_setuptools now properly respects the requested version
* use_setuptools will no longer try to import a distribute egg for the
  wrong Python version
* Distribute #74: no_fake should be True by default.
* Distribute #72: avoid a bootstrapping issue with easy_install -U

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0.6.6
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* Unified the bootstrap file so it works on both py2.x and py3k without 2to3
  (patch by Holger Krekel)

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0.6.5
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* Distribute #65: cli.exe and gui.exe are now generated at build time,
  depending on the platform in use.

* Distribute #67: Fixed doc typo (PEP 381/382)

* Distribute no longer shadows setuptools if we require a 0.7-series
  setuptools. And an error is raised when installing a 0.7 setuptools with
  distribute.

* When run from within buildout, no attempt is made to modify an existing
  setuptools egg, whether in a shared egg directory or a system setuptools.

* Fixed a hole in sandboxing allowing builtin file to write outside of
  the sandbox.

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0.6.4
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* Added the generation of `distribute_setup_3k.py` during the release. This closes Distribute #52.

* Added an upload_docs command to easily upload project documentation to PyPI's https://pythonhosted.org. This close issue Distribute #56.

* Fixed a bootstrap bug on the use_setuptools() API.

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0.6.3
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setuptools
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* Fixed a bunch of calls to file() that caused crashes on Python 3.

bootstrapping
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* Fixed a bug in sorting that caused bootstrap to fail on Python 3.

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0.6.2
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setuptools
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* Added Python 3 support; see docs/python3.txt. This closes Old Setuptools #39.

* Added option to run 2to3 automatically when installing on Python 3. This closes issue Distribute #31.

* Fixed invalid usage of requirement.parse, that broke develop -d. This closes Old Setuptools #44.

* Fixed script launcher for 64-bit Windows. This closes Old Setuptools #2.

* KeyError when compiling extensions. This closes Old Setuptools #41.

bootstrapping
* Fixed bootstrap not working on Windows. This closes issue Distribute #49.

* Fixed 2.6 dependencies. This closes Distribute #50.

* Make sure setuptools is patched when running through easy_install
  This closes Old Setuptools #40.

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0.6.1
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setuptools
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* package_index.urlopen now catches BadStatusLine and malformed url errors.
  This closes Distribute #16 and Distribute #18.

* zip_ok is now False by default. This closes Old Setuptools #33.

* Fixed invalid URL error catching. Old Setuptools #20.

* Fixed invalid bootstraping with easy_install installation (Distribute #40).
  Thanks to Florian Schulze for the help.

* Removed buildout/bootstrap.py. A new repository will create a specific
  bootstrap.py script.

bootstrapping
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* The bootstrap process leave setuptools alone if detected in the system
  and --root or --prefix is provided, but is not in the same location.
  This closes Distribute #10.

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0.6
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setuptools
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* Packages required at build time where not fully present at install time.
  This closes Distribute #12.

* Protected against failures in tarfile extraction. This closes Distribute #10.
* Made Jython api_tests.txt doctest compatible. This closes Distribute #7.

* sandbox.py replaced builtin type file with builtin function open. This closes Distribute #6.

* Immediately close all file handles. This closes Distribute #3.

* Added compatibility with Subversion 1.6. This references Distribute #1.

pkg_resources
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* Avoid a call to /usr/bin/sw_vers on OSX and use the official platform API instead. Based on a patch from ronaldoussoren. This closes issue #5.

* Fixed a SandboxViolation for mkdir that could occur in certain cases. This closes Distribute #13.

* Allow to find_on_path on systems with tight permissions to fail gracefully. This closes Distribute #9.

* Corrected inconsistency between documentation and code of add_entry. This closes Distribute #8.

* Immediately close all file handles. This closes Distribute #3.

easy_install
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* Immediately close all file handles. This closes Distribute #3.

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0.6c9
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* Fixed a missing files problem when using Windows source distributions on non-Windows platforms, due to distutils not handling manifest file line endings correctly.

* Updated Pyrex support to work with Pyrex 0.9.6 and higher.

* Minor changes for Jython compatibility, including skipping tests that can't work on Jython.

* Fixed not installing eggs in `install_requires` if they were also used for `setup_requires` or `tests_require`.
* Fixed not fetching eggs in ``install_requires`` when running tests.

* Allow ``ez_setup.use_setuptools()`` to upgrade existing setuptools installations when called from a standalone ``setup.py``.

* Added a warning if a namespace package is declared, but its parent package is not also declared as a namespace.

* Support Subversion 1.5

* Removed use of deprecated ``md5`` module if ``hashlib`` is available

* Fixed ``bdist_wininst upload`` trying to upload the ``.exe`` twice

* Fixed ``bdist_egg`` putting a native_libs.txt in the source package's .egg-info, when it should only be in the built egg's EGG-INFO.

* Ensure that _full_name is set on all shared libs before extensions are checked for shared lib usage. (Fixes a bug in the experimental shared library build support.)

* Fix to allow unpacked eggs containing native libraries to fail more gracefully under Google App Engine (with an ImportError loading the C-based module, instead of getting a NameError).

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0.6c7

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* Fixed distutils.filelist.findall() crashing on broken symlinks, and egg_info command failing on new, uncommitted SVN directories.

* Fix import problems with nested namespace packages installed via --root or --single-version-externally-managed, due to the parent package not having the child package as an attribute.

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0.6c6

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* Added --egg-path option to develop command, allowing you to force .egg-link files to use relative paths (allowing them to be shared across platforms on a networked drive).

* Fix not building binary RPMs correctly.

* Fix "eggexecutables" (such as setuptools' own egg) only being runnable with bash-compatible shells.
* Fix ```#!`` parsing problems in Windows ```.exe``` script wrappers, when there was whitespace inside a quoted argument or at the end of the ```#!``` line (a regression introduced in 0.6c4).

* Fix ```test`` command possibly failing if an older version of the project being tested was installed on ```sys.path``` ahead of the test source directory.

* Fix ```find_packages()`` treated ```ez_setup``` and directories with ```.``` in their names as packages.

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0.6c5

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* Fix uploaded ```bdist_rpm``` packages being described as ```bdist_egg``` packages under Python versions less than 2.5.

* Fix uploaded ```bdist_wininst``` packages being described as suitable for "any" version by Python 2.5, even if a ```--target-version``` was specified.

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0.6c4

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* Overhauled Windows script wrapping to support ```bdist_wininst``` better. Scripts installed with ```bdist_wininst``` will always use ```#!python.exe``` or ```#!pythonw.exe``` as the executable name (even when built on non-Windows platforms!), and the wrappers will look for the executable in the script's parent directory (which should find the right version of Python).

* Fix ```upload`` command not uploading files built by ```bdist_rpm``` or ```bdist_wininst``` under Python 2.3 and 2.4.

* Add support for "eggexecutable" headers: a ```#!/bin/sh``` script that is prepended to an ```.egg``` file to allow it to be run as a script on Unix-ish platforms. (This is mainly so that setuptools itself can have a single-file installer on Unix, without doing multiple downloads, dealing with firewalls, etc.)

* Fix problem with empty revision numbers in Subversion 1.4 ```entries``` files

* Use cross-platform relative paths in ```easy-install.pth``` when doing ```develop``` and the source directory is a subdirectory of the installation target directory.

* Fix a problem installing eggs with a system packaging tool if the project
contained an implicit namespace package; for example if the `''setup()`` listed a namespace package `''foo.bar`` without explicitly listing `''foo`` as a namespace package.

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0.6c3
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* Fixed breakages caused by Subversion 1.4's new "working copy" format

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0.6c2
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* The `''ez_setup`` module displays the conflicting version of setuptools (and its installation location) when a script requests a version that's not available.

* Running `''setup.py develop`` on a setuptools-using project will now install setuptools if needed, instead of only downloading the egg.

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0.6c1
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* Fixed `''AttributeError`` when trying to download a `''setup_requires`` dependency when a distribution lacks a `''dependency_links`` setting.

* Made `''zip-safe`` and `''not-zip-safe`` flag files contain a single byte, so as to play better with packaging tools that complain about zero-length files.

* Made `''setup.py develop`` respect the `''--no-deps`` option, which it previously was ignoring.

* Support `''extra_path`` option to `''setup()`` when `''install`` is run in backward-compatibility mode.

* Source distributions now always include a `''setup.cfg`` file that explicitly sets `''egg_info`` options such that they produce an identical version number to the source distribution's version number. (Previously, the default version number could be different due to the use of `''--tag-date``), or if the version was overridden on the command line that built the source distribution.)

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0.6b4
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* Fix `register` not obeying name/version set by `egg_info` command, if `egg_info` wasn't explicitly run first on the same command line.

* Added `--no-date` and `--no-svn-revision` options to `egg_info` command, to allow suppressing tags configured in `setup.cfg`.

* Fixed redundant warnings about missing `README` file(s); it should now appear only if you are actually a source distribution.

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0.6b3
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* Fix `bdist_egg` not including files in subdirectories of `.egg-info`.

* Allow `.py` files found by the `include_package_data` option to be automatically included. Remove duplicate data file matches if both `include_package_data` and `package_data` are used to refer to the same files.

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0.6b1
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* Strip `module` from the end of compiled extension modules when computing the name of a `.py` loader/wrapper. (Python's import machinery ignores this suffix when searching for an extension module.)

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0.6a11
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* Added `test_loader` keyword to support custom test loaders

* Added `setuptools.file_finders` entry point group to allow implementing revision control plugins.

* Added `--identity` option to `upload` command.

* Added `dependency_links` to allow specifying URLs for `--find-links`.

* Enhanced test loader to scan packages as well as modules, and call `additional_tests()` if present to get non-unittest tests.

* Support namespace packages in conjunction with system packagers, by omitting the installation of any `__init__.py` files for namespace packages, and adding a special `pth` file to create a working package in
``sys.modules``.

* Made `--single-version-externally-managed` automatic when `--root` is used, so that most system packagers won't require special support for setuptools.

* Fixed `setup_requires`, `tests_require`, etc. not using `setup.cfg` or other configuration files for their option defaults when installing, and also made the install use `--multi-version` mode so that the project directory doesn't need to support .pth files.

* `MANIFEST.in` is now forcibly closed when any errors occur while reading it. Previously, the file could be left open and the actual error would be masked by problems trying to remove the open file on Windows systems.

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0.6a10

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* Fixed the `develop` command ignoring `--find-links`.

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0.6a9

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* The `sdist` command no longer uses the traditional `MANIFEST` file to create source distributions. `MANIFEST.in` is still read and processed, as are the standard defaults and pruning. But the manifest is built inside the project's `.egg-info` directory as `SOURCES.txt`, and it is rebuilt every time the `egg_info` command is run.

* Added the `include_package_data` keyword to `setup()`, allowing you to automatically include any package data listed in revision control or `MANIFEST.in`.

* Added the `exclude_package_data` keyword to `setup()`, allowing you to trim back files included via the `package_data` and `include_package_data` options.

* Fixed `--tag-svn-revision` not working when run from a source distribution.

* Added warning for namespace packages with missing `declare_namespace()`.

* Added `tests_require` keyword to `setup()`, so that e.g. packages requiring `nose` to run unit tests can make this dependency optional unless the `test` command is run.
* Made all commands that use ``easy_install`` respect its configuration options, as this was causing some problems with ``setup.py install``.

* Added an ``unpack_directory()`` driver to ``setuptools.archive_util``, so that you can process a directory tree through a processing filter as if it were a zipfile or tarfile.

* Added an internal ``install_egg_info`` command to use as part of old-style ``install`` operations, that installs an `.egg-info` directory with the package.

* Added a ``--single-version-externally-managed`` option to the ``install`` command so that you can more easily wrap a "flat" egg in a system package.

* Enhanced ``bdist_rpm`` so that it installs single-version eggs that don't rely on a ``.pth`` file. The ``--no-egg`` option has been removed, since all RPMs are now built in a more backwards-compatible format.

* Support full roundtrip translation of eggs to and from ``bdist_wininst`` format. Running ``bdist_wininst`` on a setuptools-based package wraps the egg in an .exe that will safely install it as an egg (i.e., with metadata and entry-point wrapper scripts), and ``easy_install`` can turn the .exe back into an `.egg` file or directory and install it as such.

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0.6a8
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* Fixed some problems building extensions when Pyrex was installed, especially with Python 2.4 and/or packages using SWIG.

* Made ``develop`` command accept all the same options as ``easy_install``, and use the ``easy_install`` command's configuration settings as defaults.

* Made ``egg_info --tag-svn-revision`` fall back to extracting the revision number from ``PKG-INFO`` in case it is being run on a source distribution of a snapshot taken from a Subversion-based project.

* Automatically detect ``.dll``, ``.so`` and ``.dylib`` files that are being installed as data, adding them to ``native_libs.txt`` automatically.

* Fixed some problems with fresh checkouts of projects that don't include `.egg-info/PKG-INFO` under revision control and put the project's source code directly in the project directory. If such a package had any requirements that get processed before the `egg_info` command can be run, the setup scripts would fail with a "Missing 'Version:' header and/or PKG-INFO file" error, because the egg runtime interpreted the unbuilt
metadata in a directory on `''sys.path''` (i.e. the current directory) as being a corrupted egg. Setuptools now monkeypatches the distribution metadata cache to pretend that the egg has valid version information, until it has a chance to make it actually be so (via the `''egg_info''` command).

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0.6a5
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* Fixed missing gui/cli .exe files in distribution. Fixed bugs in tests.

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0.6a3
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* Added `''gui_scripts''` entry point group to allow installing GUI scripts on Windows and other platforms. (The special handling is only for Windows; other platforms are treated the same as for `''console_scripts''`.)

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0.6a2
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* Added `''console_scripts''` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an `'' .exe''` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.

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0.6a1
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* Added support for building "old-style" RPMs that don't install an egg for the target package, using a `''--no-egg''` option.

* The `''build_ext''` command now works better when using the `''--inplace''` option and multiple Python versions. It now makes sure that all extensions match the current Python version, even if newer copies were built for a different Python version.

* The `''upload''` command no longer attaches an extra `'' .zip''` when uploading eggs, as PyPI now supports egg uploads without trickery.

* The `''ez_setup''` script/module now displays a warning before downloading the setuptools egg, and attempts to check the downloaded egg against an internal MD5 checksum table.

* Fixed the `''--tag-svn-revision''` option of `''egg_info''` not finding the
* Added `eager_resources` setup argument

* The `sdist` command now recognizes Subversion "deleted file" entries and does not include them in source distributions.

* `setuptools` now embeds itself more thoroughly into the distutils, so that other distutils extensions (e.g. py2exe, py2app) will subclass setuptools' versions of things, rather than the native distutils ones.

* Added `entry_points` and `setup_requires` arguments to `setup()`;
  `setup_requires` allows you to automatically find and download packages that are needed in order to *build* your project (as opposed to running it).

* `setuptools` now finds its commands, `setup()` argument validators, and metadata writers using entry points, so that they can be extended by third-party packages. See `Creating distutils Extensions`<http://pythonhosted.org/setuptools/setuptools.html#creating-distutils-extensions>`_ for more details.

* The vestigial `depends` command has been removed. It was never finished or documented, and never would have worked without EasyInstall - which it pre-dated and was never compatible with.

* The zip-safety scanner now checks for modules that might be used with `python -m`, and marks them as unsafe for zipping, since Python 2.4 can't handle `"-m` on zipped modules.

* Fix breakage of the "develop" command that was caused by the addition of `"--always-unzip"` to the `"easy_install"` command.

* Include `svn:externals` directories in source distributions as well as normal subversion-controlled files and directories.
* Added ``exclude=patternlist`` option to ``setuptools.find_packages()``

* Changed --tag-svn-revision to include an "r" in front of the revision number for better readability.

* Added ability to build eggs without including source files (except for any scripts, of course), using the ``--exclude-source-files`` option to ``bdist_egg``.

* ``setup.py install`` now automatically detects when an "unmanaged" package or module is going to be on ``sys.path`` ahead of a package being installed, thereby preventing the newer version from being imported. If this occurs, a warning message is output to ``sys.stderr``, but installation proceeds anyway. The warning message informs the user what files or directories need deleting, and advises them they can also use EasyInstall (with the ``--delete-conflicting`` option) to do it automatically.

* The ``egg_info`` command now adds a ``top_level.txt`` file to the metadata directory that lists all top-level modules and packages in the distribution. This is used by the ``easy_install`` command to find possibly-conflicting "unmanaged" packages when installing the distribution.

* Added ``zip_safe`` and ``namespace_packages`` arguments to ``setup()``. Added package analysis to determine zip-safety if the ``zip_safe`` flag is not given, and advise the author regarding what code might need changing.

* Fixed the swapped ``-d`` and ``-b`` options of ``bdist_egg``.

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0.5a8

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* The "egg_info" command now always sets the distribution metadata to "safe" forms of the distribution name and version, so that distribution files will be generated with parseable names (i.e., ones that don't include '-' in the name or version). Also, this means that if you use the various ``--tag`` options of "egg_info", any distributions generated will use the tags in the version, not just egg distributions.

* Added support for defining command aliases in distutils configuration files, under the "[aliases]" section. To prevent recursion and to allow aliases to call the command of the same name, a given alias can be expanded only once per command-line invocation. You can define new aliases with the "alias" command, either for the local, global, or per-user configuration.

* Added "rotate" command to delete old distribution files, given a set of patterns to match and the number of files to keep. (Keeps the most recently-modified distribution files matching each pattern.)
* Added "saveopts" command that saves all command-line options for the current invocation to the local, global, or per-user configuration file. Useful for setting defaults without having to hand-edit a configuration file.

* Added a "setopt" command that sets a single option in a specified distutils configuration file.

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0.5a7
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* Added "upload" support for egg and source distributions, including a bug fix for "upload" and a temporary workaround for lack of .egg support in PyPI.

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0.5a6
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* Beefed up the "sdist" command so that if you don’t have a MANIFEST.in, it will include all files under revision control (CVS or Subversion) in the current directory, and it will regenerate the list every time you create a source distribution, not just when you tell it to. This should make the default "do what you mean" more often than the distutils' default behavior did, while still retaining the old behavior in the presence of MANIFEST.in.

* Fixed the "develop" command always updating .pth files, even if you specified `--n` or `--dry-run`.

* Slightly changed the format of the generated version when you use `--tag-build` on the "egg_info" command, so that you can make tagged revisions compare *lower* than the version specified in setup.py (e.g. by using `--tag-build=dev`).

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0.5a5
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* Added `develop` command to `setuptools`-based packages. This command installs an `.egg-link` pointing to the package's source directory, and script wrappers that `execfile()` the source versions of the package's scripts. This lets you put your development checkout(s) on sys.path without having to actually install them. (To uninstall the link, use `setup.py develop --uninstall`.)

* Added `egg_info` command to `setuptools`-based packages. This command just creates or updates the "projectname.egg-info" directory, without
building an egg. (It's used by the `bdist_egg`, `test`, and `develop` commands.)

* Enhanced the `test` command so that it doesn't install the package, but instead builds any C extensions in-place, updates the `.egg-info` metadata, adds the source directory to `sys.path`, and runs the tests directly on the source. This avoids an "unmanaged" installation of the package to `site-packages` or elsewhere.

* Made `easy_install` a standard `setuptools` command, moving it from the `easy_install` module to `setuptools.command.easy_install`. Note that if you were importing or extending it, you must now change your imports accordingly. `easy_install.py` is still installed as a script, but not as a module.

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0.5a4

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* Setup scripts using setuptools can now list their dependencies directly in the setup.py file, without having to manually create a `depends.txt` file. The `install_requires` and `extras_require` arguments to `setup()` are used to create a dependencies file automatically. If you are manually creating `depends.txt` right now, please switch to using these setup arguments as soon as practical, because `depends.txt` support will be removed in the 0.6 release cycle. For documentation on the new arguments, see the `setuptools.dist.Distribution` class.

* Setup scripts using setuptools now always install using `easy_install` internally, for ease of uninstallation and upgrading.

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0.5a1

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* Added support for "self-installation" bootstrapping. Packages can now include `ez_setup.py` in their source distribution, and add the following to their `setup.py`, in order to automatically bootstrap installation of setuptools as part of their setup process:

    from ez_setup import use_setuptools
    use_setuptools()

    from setuptools import setup
    # etc...

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0.4a2
* Added ``ez_setup.py`` installer/bootstrap script to make initial setuptools installation easier, and to allow distributions using setuptools to avoid having to include setuptools in their source distribution.

* All downloads are now managed by the ``PackageIndex`` class (which is now subclassable and replaceable), so that embedders can more easily override download logic, give download progress reports, etc. The class has also been moved to the new ``setuptools.package_index`` module.

* The ``Installer`` class no longer handles downloading, manages a temporary directory, or tracks the ``zip_ok`` option. Downloading is now handled by ``PackageIndex``, and ``Installer`` has become an ``easy_install`` command class based on ``setuptools.Command``.

* There is a new ``setuptools.sandbox.run_setup()`` API to invoke a setup script in a directory sandbox, and a new ``setuptools.archive_util`` module with an ``unpack_archive()`` API. These were split out of EasyInstall to allow reuse by other tools and applications.

* ``setuptools.Command`` now supports reinitializing commands using keyword arguments to set/reset options. Also, ``Command`` subclasses can now set their ``command_consumes_arguments`` attribute to ``True`` in order to receive an ``args`` option containing the rest of the command line.

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0.3a2

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* Added new options to ``bdist_egg`` to allow tagging the egg's version number with a subversion revision number, the current date, or an explicit tag value. Run ``setup.py bdist_egg --help`` to get more information.

* Misc. bug fixes

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0.3a1

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* Initial release.

Found in path(s):
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/CHANGES.txt

No license file was found, but licenses were detected in source scan.
``Setuptools`` is a collection of enhancements to the Python `distutils` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using `setuptools` look to the user like ordinary Python packages based on the `distutils`. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will automatically download and install `setuptools` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options
* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPi downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`

Developer's Guide

Installing `setuptools`

Please follow the `EasyInstall Installation Instructions` to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```
   ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.
Basic Use
==========

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Just by doing the above, this project will be able to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference` section below to see what commands you can give to this setup script.

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
    # Project uses reStructuredText, so ensure that the docutils get installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '*': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },
    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
)
In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4'' or ``0.5''. Each series of digits is treated numerically, so releases ``2.1'' and ``2.1.0'' are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10'' is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1'' or ``2.1.0''. Leading zeros within a series of digits are also ignored, so ``2.01'' is the same as ``2.1'', and different from ``2.0.1''.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4'' is *newer* than revision ``2.4c1'', which in turn is newer than ``2.4b1'' or ``2.4a1''. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1'' and ``2.4pl3'' are newer than ``2.4'', but are *older* than ``2.4.1'' (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha'', ``beta'', ``a'', ``c'', ``dev'', and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1'' and ``2.4.e1'' and ``2.4-1'' all represent release candidate 1 of version ``2.4'', and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ``c'': ``pre'', ``preview'', and ``rc''. So, version
``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the "adev" prerelease of "1.9", *not* a development pre-release of "1.9a". Use "dev" instead, as in "1.9a.dev", or separate the prerelease tags with a number, as in "1.9a0dev", "1.9a.dev", "1.9a0dev", and even "1.9.a.dev" are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers::

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* "Tagging and "Daily Build" or "Snapshot" Releases"_
* "Managing "Continuous Releases" Using Subversion"_
* The `egg_info` command

New and Changed `setup()` Keywords
====================================

The following keyword arguments to `setup()` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

``include_package_data``
If set to `True`, this tells `setuptools` to automatically include any data files it finds inside your package directories, that are either under CVS or Subversion control, or which are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format.
of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using "EasyInstall") before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the ./eggs directory if they’re not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ``install_requires`` **and** `setup_requires`.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ``setup_requires`` or ``tests_require``. They will also be written into the egg’s metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project’s "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3’s "zope" package is a namespace package, because subpackages like "zope.interface" and "zope.publisher" may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package’s `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a
If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

If you would like to use a different way of finding tests to run than what `setuptools` normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. `setuptools` will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default `unittest` behavior, you can specify `"unittest:TestLoader"` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be
extracted to the filesystem *as a unit*. Resources listed here should be '/'-separated paths, relative to the source root, so to list a resource ``foo.png`` in package ``bar.baz``, you would include the string ``bar/baz/foo.png`` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`_.

``use_2to3``

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``

List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``

A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

------------------------

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``src`` or ``lib`` as the first argument to ``find_packages()``. (And such projects also need something like ``package_dir = {'': 'src'}`` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For
example, ``find_packages(exclude=["*.tests"])`` will exclude all packages whose last name part is ``tests``. Or, ``find_packages(exclude=["*.tests", "*.tests.*"])`` will also exclude any subpackages of packages named ``tests``, but it still won't exclude a top-level ``tests`` package or the children thereof. In fact, if you really want no ``tests`` packages at all, you'll need something like this:

```python
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the ``find_packages()`` function returns a list of package names suitable for use as the ``packages`` argument to ``setup()`` and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

**Automatic Script Creation**

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the ``-m`` option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an ``.exe`` file so that users don't have to change their ``PATHEXT`` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called "foo" and "bar", and a GUI script called "baz", you might do something like this:

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ],
    ),
```

---

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When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of ``foo``, ``bar``, and ``baz`` scripts will be installed that import ``main_func`` and ``some_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``; so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on "Declaring Extras". For more information on "entry points" in general, see the section below on "Dynamic Discovery of Services and Plugins".

"Eggsecutable" Scripts
-----------------------

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following::

    setup(
        # other arguments here...
        entry_points = {
            'setuptools.installation': [
                'eggsecutable = my_package.some_module:main_func',
            ]
        }
    )

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main_func()`` from ``my_package.some_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a ``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators ``<``, ``>``, ``<=``, ``>=``, ``==`` or ``!=``, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `--`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ``>1, >2`` becomes ``>1``), and ``<2, <3`` becomes ``<3``). ``!=`` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, 
  ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4
```
setuptools==0.5a7

The simplest way to include requirement specifiers is to use the
``install_requires`` argument to ``setup()``. It takes a string or list of
strings containing requirement specifiers. If you include more than one
requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py
   install```, or ``setup.py develop``, all of the dependencies not already
   installed will be located (via PyPI), downloaded, built (if necessary),
   and installed.

2. Any scripts in your project will be installed with wrappers that verify
   the availability of the specified dependencies at runtime, and ensure that
   the correct versions are added to ``sys.path`` (e.g. if multiple versions
   have been installed).

3. Python Egg distributions will include a metadata file listing the
   dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do
*not* need to use the ``require()`` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See "Development Mode" below for more details on
using ``setup.py develop``.)

Dependencies that aren't in PyPI
--------------------------------

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils `sdist` format,
- a single `py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to
`setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL.
In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
`vcs+proto://host/path@revision#egg=project-version`
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(  
    ...
  dependency_links = [  
    "http://peak.telecommunity.com/snapshots/"
  ],
)
```

.. _Declaring Extras:
Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>=1.2', "RXP"],
        'reST': ['docutils>=0.3'],
    }
)
```

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry_points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```
Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```python
setup(
    name="Project-B",
    install_requires = ['Project-A[PDF]'],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['docutils>=0.3'],
    }
)
```

so that Package B doesn't have to remove the "[PDF]" from its requirement specifier.

Including Data Files

===============

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.
Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be under CVS or Subversion control, or else they must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by another revision control system, using an appropriate plugin. See the section below on `Adding Support for Other Revision Control Systems` for information on how to write such plugins.)

If the data files are not under version control, or are not in a supported version control system, or if you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```python
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
data/
        somefile.dat
        otherdata.dat
```
from setuptools import setup, find_packages

setup(
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'':'src'},   # tell distutils packages are under src

    package_data = {
        # If any package contains *.txt files, include them:
        ': ["*.txt"],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*dat'],
    }
    )

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is some documentation for the feature online at the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are tracked by a supported version control system, or are listed in the MANIFEST.in file.)

http://docs.python.org/dist/node11.html

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

from setuptools import setup, find_packages

setup(
    ...  
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'':'src'},   # tell distutils packages are under src
include_package_data = True,  # include everything in source control

# ...but exclude README.txt from all packages
exclude_package_data = { '' : ['README.txt'] },
)

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

``include_package_data``
Accept all data files and directories matched by `MANIFEST.in` or found in source control.

``package_data``
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

``exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to
use its resource management API. See also `Accessing Package Resources`_ for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

---------------

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`_, by specifying a `Requirement` instead of a package name::

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

------------------------

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C
extensions expect to be able to access, you may need to list those files in the ``eager_resources`` argument to ``setup()``. so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so`` or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when he C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically extract *all* C extensions and ``eager_resources`` at the same time, whenever *any* C extension or eager resource is requested via the ``resource_filename()`` API. (C extensions are imported using ``resource_filename()`` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format.
The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```python
setup(
# ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
# ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
# ...
    entry_points = ""
    [blogtool.parsers]
        .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading
of an entry point, any requirements implied by the associated extras will be
passed to ``pkg_resources.require()``, so that an appropriate error message
can be displayed if the needed package(s) are missing. (Of course, the
invoking app or framework can ignore such errors if it wants to make an entry
point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds
of metadata to include in eggs, which they can then access using the
``pkg_resources`` metadata APIs. Ordinarily, this is done by having plugin
developers include additional files in their ``ProjectName.egg-info``
directory. However, since it can be tedious to create such files by hand, you
may want to create a distutils extension that will create the necessary files
from arguments to ``setup()``. In much the same way that ``setuptools`` does
for many of the ``setup()`` arguments it adds. See the section below on
`Creating distutils Extensions` for more details, especially the subsection on
`Adding new EGG-INFO Files`.

"Development Mode"

Under normal circumstances, the ``distutils`` assume that you are going to
build a distribution of your project, not use it in its "raw" or "unbuilt"
form. If you were to use the ``distutils`` that way, you would have to rebuild
and reinstall your project every time you made a change to it during
development.

Another problem that sometimes comes up with the ``distutils`` is that you may
need to do development on two related projects at the same time. You may need
to put both projects' packages in the same directory to run them, but need to
keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or
staging area, but without copying any files. Thus, you can edit each project's
code in its checkout directory, and only need to run build commands when you
change a project's C extensions or similarly compiled files. You can even
deploy a project into another project's checkout directory, if that's your
preferred way of working (as opposed to using a common independent staging area
or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to
``setup.py install`` or the EasyInstall tool, except that it doesn't actually
install anything. Instead, it creates a special ``.egg-link`` file in the
deployment directory, that links to your project's source code. And, if your
deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project
=========================================

Using `setuptools`... Without bundling it!
==========================================

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`, and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports
anything from setuptools:

.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()

That's it. The ``ez_setup`` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' ``ez_setup.py`` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ``setup.py register`` to do that. Or you can do it all in one step, e.g. ``setup.py register sdist bdist_egg upload`` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools``, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

What Your Users Should Know
----------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and `easy_install``.

Network Access

If your project is using `ez_setup```, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to
somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations` before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `--f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `--f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g., most Windows users) and your package or some of its dependencies include C code.

Subversion or CVS Users and Co-Developers

Users and co-developers who are tracking your in-development code using CVS, Subversion, or some other revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-
installed "bdist" packaging tool that internally uses the distutils
``install`` command, it should be able to work with ``setuptools``. Some
examples of "bdist" formats that this should work with include the
``bdist_nsi`` and ``bdist_msi`` formats for Windows.

However, packaging tools that build binary distributions by running
``setup.py install`` on the command line or as a subprocess will require
modification to work with setuptools. They should use the
``--single-version-externally-managed`` option to the ``install`` command,
combined with the standard ``--root`` or ``--record`` options.
See the `install command` documentation below for more details. The
``bdist_deb`` command is an example of a command that currently requires
this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for
your project, please report the problem via the mailing list so that
either the "bdist" tool in question or setuptools can be modified to
resolve the issue.

Setting the ``zip_safe`` flag
-----------------------------

For maximum performance, Python packages are best installed as zip files.
Not all packages, however, are capable of running in compressed form, because
they may expect to be able to access either source code or data files as
normal operating system files. So, ``setuptools`` can install your project
as a zipfile or a directory, and its default choice is determined by the
project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the
``setup()`` function, or you can omit it. If you omit it, the ``bdist_egg``
command will analyze your project's contents to see if it can detect any
conditions that would prevent it from working in a zipfile. It will output
notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the
project unsafe if it contains any C extensions or datafiles whatsoever. This
does *not* mean that the project can't or won't work as a zipfile! It just
means that the ``bdist_egg`` authors aren't yet comfortable asserting that
the project *will* work. If the project contains no C or data files, and does
no ``__file__`` or ``__path__`` introspection or source code manipulation, then
there is an extremely solid chance the project will work when installed as a
zipfile. (And if the project uses ``pkg_resources`` for all its data file
access, then C extensions and other data files shouldn't be a problem at all.
See the `Accessing Data Files at Runtime` section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but
you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `"zip_safe"` to `"True"` in your `"setup()"` call. If it turns out that it doesn't work, you can always change it to `"False``, which will force `"setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `"setup.py easy_install --zip-ok ."` or `"setup.py easy_install --always-unzip .`` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `"pkg_resources`` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `"True`` or `"False`` for the `"zip_safe`` flag, so that it will not be necessary for `"bdist_egg`` or `"EasyInstall`` to try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `"__init__.py`` , and that it is merely a container for modules and subpackages.

The `"pkg_resources`` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `"namespace_packages`` argument to `"setup()`` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
    # ...
    namespace_packages = ['zope']
)
```

because it contains a `"zope.interface`` package that lives in the `"zope`` namespace package. Similarly, a project for a standalone `"zope.publisher``
would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line:

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as ``.egg`` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the ``pkg_resources`` runtime, and also the need for ``pkg_resources`` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare_namespace()`` calls in your ``__init__.py`` files, and you should correct these as soon as possible before the compatibility support is removed.
Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r``)

* An 8-character representation of the build date (`--tag-date, -d``), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob
pattern. So, you can use a command line like:

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the ``daily`` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
-------------------------------

``setuptools`` enhances the distutils' default algorithm for source file selection, so that all files managed by CVS or Subversion in your project tree are included in any source distribution you build. This is a big improvement over having to manually write a `MANIFEST.in` file and try to keep it in sync with your project. So, if you are using CVS or Subversion, and your source distributions only need to include files that you're tracking in revision control, don't create a `MANIFEST.in` file for your project. (And, if you already have one, you might consider deleting it the next time you would otherwise have to change it.)

(NOTE: other revision control systems besides CVS and Subversion can be supported using plugins; see the section below on `Adding Support for Other Revision Control Systems` for information on how to write such plugins.)

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project.
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools’ approach to determining the contents of a source
distribution is so much simpler, its `sdist` command omits nearly all of
the options that the distutils' more complex `sdist` process requires. For
all practical purposes, you'll probably use only the `'--formats` option, if
you use any option at all.

(By the way, if you're using some other revision control system, you might
consider creating and publishing a `revision control plugin for setuptools`_)

.. _revision control plugin for setuptools: `Adding Support for Other Revision Control Systems`_

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion
checkout) to be used instead.

So here's what you need to do before running the `register` command. There
are three `setup()` arguments that affect EasyInstall:

`url` and `download_url`
These become links on your project's PyPI page. EasyInstall will examine
them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the
page for primary links

`long_description`
EasyInstall will check any URLs contained in this argument to see if they
are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or
`#egg=project-version` fragment identifier attached to it. EasyInstall
attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `#egg=` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., `#egg=projectname-dev`), so that users can do something like this::

```
  easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`

Managing "Continuous Releases" Using Subversion
-----------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall)
will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```python
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases

When you make an official release, creating source or binary distributions,
you will need to override the tag settings from `setup.cfg`, so that you
don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is
easy to do if you are developing on the trunk and using tags or branches for
your releases - just make the change to `setup.cfg` after branching or
tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the
default version options on the command line, using something like::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (`egg_info -RDb ""`) will override the
configured tag information, before creating source and binary eggs, registering
the project with PyPI, and uploading the files. Thus, these commands will use
the plain version from your `setup.py`, without adding the Subversion
revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal
alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------
``setuptools`` includes transparent support for building Pyrex extensions, as
long as you define your extensions using ``setuptools.Extension``, *not*
``distutils.Extension``. You must also not import anything from Pyrex in
your setup script.

If you follow these rules, you can safely list `*.pyx` files as the source
of your `Extension` objects in the setup script. `setuptools` will detect
at build time whether Pyrex is installed or not. If it is, then `setuptools`
will use it. If not, then `setuptools` will silently change the
`Extension` objects to refer to the `*.c` counterparts of the `*.pyx`
files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C
code generated by Pyrex, as well as your original `*.pyx` files. This means
that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in CVS or Subversion will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

---

Command Reference
---

.. _alias:
``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using `setup.py alias aliasname expansion`, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various `egg_info` tagging options:

```
setup.py alias --global-config daily egg_info --tag-svn-revision --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.:

```
setup.py daily bdist_egg       # generate a daily-build .egg file
setup.py daily sdist          # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word "daily" were replaced with `egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that
uses that command. For example, this (project-local) alias:

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `--r`) option, e.g.:

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

```
``bdist_egg`` - Create a Python Egg for the project
===================================================
```

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:
``--dist-dir=DIR, -d DIR``
Set the directory where the '.egg' file will be placed. If you don't supply this, then the ''--dist-dir'' setting of the ''bdist'' command will be used, which is usually a directory named ''dist'' in the project directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

``--exclude-source-files``
Don't include any modules'.py' files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any '.py' files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a '.py' extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's 'traceback' module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar 'bdist' commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``
Keep the contents of the ''--bdist-dir'' tree around after creating the ''--egg'' file.

``--bdist-dir=DIR, -b DIR``
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the '.egg' file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the
.. _develop:

``develop`` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `--d`
option to designate the staging area. The created ``.egg-link`` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from ``easy-install.pth`` if the staging area is Python's ``site-packages`` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the ``--exclude-scripts`` (aka ``-x``) option when you run ``develop`` to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents ``develop`` from adding an ``easy-install.pth`` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use ``pkg_resources.require()`` to put it on ``sys.path``, or you are running a wrapper script generated by ``setuptools`` or EasyInstall. (In which case the wrapper script calls ``require()`` for you.)

Note that if you install to a directory other than ``site-packages``, this option is automatically in effect, because ``.pth`` files can only be used in ``site-packages`` (at least in Python 2.3 and 2.4). So, if you use the ``--install-dir`` or ``-d`` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the ``site-packages`` directory, but if you are using distutils configuration files, setting things like ``prefix`` or ``install_lib``, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an ``--install-dir`` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``

Don't deploy script wrappers. This is useful if you don't want to disturb
existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they
are already present in another directory on ``sys.path``. By default, if
a requirement can be met using a distribution that is already available in
a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated ``.egg-link`` file to use a specified relative path
to the source directory. This can be useful in circumstances where your
installation directory is being shared by code running under multiple
platforms (e.g. Mac and Windows) which have different absolute locations
for the code under development, but the same *relative* locations with
respect to the installation directory. If you use this option when
installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of
the same options accepted by ``easy_install``. If you've configured any
``easy_install`` settings in your ``setup.cfg`` (or other distutils config
files), the ``develop`` command will use them as defaults, unless you override
them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
============================================
This command runs the `EasyInstall tool <easy_install.html>`_ for you. It is exactly
equivalent to running the ``easy_install`` command. All command line arguments
following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use ``easy_install`` directly. It's only listed here so that you know
it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config
  files.

`` _egg_info:``

``egg_info`` - Create egg metadata and set build tags
======================================================
This command performs two operations: it updates a project's `.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

**Release Tagging Options**

-----------------------

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

```
--tag-build=NAME, -b NAME
```

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--b` or `--tag-build=""` as an argument to the `egg_info` command.

```
--tag-svn-revision, -r
```

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form ".rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.
If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

``--no-svn-revision, -R``
Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``
Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

``--no-date, -D``
Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `.egg_info` Options
--------------------------

`--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.
``egg_info`` Examples

---------------------

Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default
tags are specified in ``setup.cfg``::

    python setup.py egg_info -RDb """" sdist bdist_egg register upload

(Notice that ``egg_info`` must always appear on the command line *before* any
commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation

============================================================

The setuptools ``install`` command is basically a shortcut to run the
``easy_install`` command on the current project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``

This boolean option tells the ``install`` command to perform an "old style"
installation, with the addition of an ``.egg-info`` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the ``--root``
or ``--record`` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another
distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm``
will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``

==============================================================================

Setuptools runs this command as part of ``install`` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:
``--install-dir=DIR, -d DIR``

The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

``.. _rotate:``

``rotate`` - Delete outdated distribution files

``rotate`` - Delete outdated distribution files

As you develop new versions of your project, your distribution (``dist``) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``

Comma-separated list of glob patterns to match. This option is *required*. The project name and `*-` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like `*.zip` or `*.egg` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``

Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``

Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the project's `dist` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

---

Open Source Used In Secure Workload 3.6.1.1 17783
**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version:

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

`saveopts` - Save used options to a configuration file

========================================================

Finding and editing `distutils` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the `saveopts` command. Just add it to the command line to save the options you used. For example, this command builds the project using the `mingw32` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the `install` command):

    setup.py build --compiler=mingw32 saveopts

The `saveopts` command saves all options for every command specified on the command line to the project's local `setup.cfg` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

    setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

Configuration File Options
--------------------------

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

`--global-config, -g`

Save settings to the global `distutils.cfg` file inside the `distutils`
package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
Save settings to the current user's ```~/.pydistutils.cfg``` (POSIX) or ```$HOME/pydistutils.cfg``` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ```distutils``` and ```setuptools``` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ```setuptools``` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:
``setopt`` - Set a distutils or setuptools option in a config file
==================================================================
This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ```mingw32``` (using long option names):

```python
cmp
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

```
cmp
```

Options for the ```setopt``` command:

``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if `--remove` is set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
=================================================
When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestSuite` class or method, or a module or package containing `TestSuite` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `--quiet` option, either as a global option to the setup script (e.g. `setup.py --quiet test`) or as an option for the `test` command itself (e.g. `setup.py test --quiet`). There is one other option available:
``--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run (e.g. ``some_module.test_suite``). The default for this option can be set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a ``test_suite`` in your ``setup()`` call, and do not provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI
===========================================================================

PyPI now supports uploading project files for redistribution; uploaded files are easily found by EasyInstall, even if you don't have download links on your project's home page.

Although Python 2.5 will support uploading all types of distributions to PyPI, setuptools only supports source distributions and eggs. (This is partly because PyPI's upload support is currently broken for various other file types.) To upload files, you must include the ``upload`` command *after* the ``sdist`` or ``bdist_egg`` commands on the setup command line. For example::

```bash
setup.py bdist_egg upload         # create an egg and upload it
setup.py sdist upload             # create a source distro and upload it
setup.py sdist bdist_egg upload   # create and upload both
```

Note that to upload files for a project, the corresponding version must already be registered with PyPI, using the distutils ``register`` command. It's usually a good idea to include the ``register`` command at the start of the command line, so that any registration problems can be found and fixed before building and uploading the distributions, e.g.::

```bash
setup.py register sdist bdist_egg upload
```

This will update PyPI's listing for your project's current version.

Note, by the way, that the metadata in your ``setup()`` call determines what will be listed in PyPI for your package. Try to fill out as much of it as possible, as it will save you a lot of trouble manually adding and updating your PyPI listings. Just put it in ``setup.py`` and use the ``register`` command to keep PyPI up to date.
The ``upload`` command has a few options worth noting:

``--sign, -s``
Sign each uploaded file using GPG (GNU Privacy Guard). The ``gpg`` program must be available for execution on the system ``PATH``.

``--identity=NAME, -i NAME``
Specify the identity or key name for GPG to use when signing. The value of this option will be passed through the ``--local-user`` option of the ``gpg`` program.

``--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

.. _upload_docs:
``upload_docs`` - Upload package documentation to PyPI
===============================================

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils ``register`` command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the subdirectory ``docs``, e.g.::

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | `-- html
 | | `-- index.html
 | |-- `-- tips_tricks.html
 | `-- conf.py
You can simply pass the documentation directory path to the `upload_docs` command:

```bash
git clone https://github.com/pypa/check
```

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation. For the command to become available, `Sphinx <http://sphinx.pocoo.org/>` must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```ini
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

`--upload-dir`
The directory to be uploaded to the repository.

`--show-response`
Display the full response text from server; this is useful for debugging PyPI problems.

`--repository=URL, -r URL`
The URL of the repository to upload to. Defaults to `https://pypi.python.org/pypi` (i.e., the main PyPI installation).

Extending and Reusing Setuptools
---------------------------------

Creating `distutils` Extensions
================================

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new
commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins` above for some more background on entry points.)

Adding Commands
---------------

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding `setup()` Arguments
---------------------------

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:bar_baz",
        ],
    },
)
```
entry_points = {
    "distutils.commands": [
        "foo = mypackage.some_module:foo",
    ],
    "distutils.setup_keywords": [
        "bar_baz = mypackage.some_module:validate_bar_baz",
    ],
}

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the `distutils.Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument:

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '
'.join(value)+'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.
Adding Support for Other Revision Control Systems

If you would like to create a plugin for `setuptools` to find files in other source control systems besides CVS and Subversion, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `some/dir` under
the current directory should NOT be rendered as `./some/dir` or
`/somewhere/some/dir`, but *always* as simply `some/dir`.

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
with the absence of needed programs (i.e., ones belonging to the revision
control system itself. It *may*, however, use `distutils.log.warn()` to
inform the user of the missing program(s).

Subclassing `Command`  
----------------------

Sorry, this section isn’t written yet, and neither is a lot of what’s below
this point, except for the change log. You might want to subscribe to changes
in this page <setuptools?action=subscribe>_ to see when new documentation is
added or updated.

XXX

Reusing `setuptools` Code  
=========================

`ez_setup`
---------

XXX

`setuptools.archive_util`
------------------------

XXX

`setuptools.sandbox`
-------------------

XXX

`setuptools.package_index`
------------------------

XXX

Mailing List and Bug Tracker
Please use the `distutils-sig mailing list`_ for questions and discussion about setup tools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://bitbucket.org/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/docs/setuptools.txt
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Found in path(s):
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/_structures.py
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/__about__.py
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/specifiers.py
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/_compat.py
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/__init__.py
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/version.py
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Metadata-Version: 1.1
Name: setuptools
Version: 18.2
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://bitbucket.org/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ===============================
          Installing and Using Setuptools
          ===============================

.. contents:: **Table of Contents**
Installation Instructions

The recommended way to bootstrap setuptools on any system is to download `ez_setup.py` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x`.

The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

Windows (Powershell 3 or later)

For best results, uninstall previous versions FIRST (see `Uninstalling`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple PowerShell command. Start up Powershell and paste this command:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the `py` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.
Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `$env:APPDATA\Python\Scripts`.

Windows (simplified)
---------------------

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and "run" that file.

Unix (wget)
==========

Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you may need to invoke the command with superuser privileges to install to the system Python::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915> ). If you happen to encounter them, install Setuptools as follows::

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```
Unix including Mac OS X (curl)
=================================

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `-o`.

For example:

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation
=======================

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI` and run setup.py with any supported distutils and Setuptools options. For example:

```
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```

Use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual` for detailed instructions, especially the section on custom installation locations.

Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python Package Index`.

For example:

```
.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools
```

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Bitbucket repo`, and in-development versions of the `0.6 branch` are available as well.

```
.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06
```

Uninstalling
============
On Windows, if Setuptools was installed using an `.exe` or `.msi` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all `setuptools*` and `distribute*` files and directories from your system's `site-packages` directory (and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the `easy_install` and `easy_install-x.x` scripts and associated executables installed to the Python scripts directory.

--------------------------------
Using Setuptools and EasyInstall
--------------------------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`
* `The setuptools Developer's Guide`
* `The pkg_resources API reference`
* `The Internal Structure of Python Eggs`

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, tested patches to correct problems or add features, you may submit them to the `setuptools bug tracker`.

.. _setuptools bug tracker: https://bitbucket.org/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

-------
Credits
-------

* The original design for the `.egg` format and the `pkg_resources` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of `pkg_resources`, and supplied the OS X operating system version
compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of `easy_install`, and supplied the doctests for the command-line `.exe` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Python Software Foundation License
Classifier: License :: OSI Approved :: Zope Public License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.1
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging  
Classifier: Topic :: System :: Systems Administration  
Classifier: Topic :: Utilities  

Found in path(s):
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/PKG-INFO  
* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/setuptools.egg-info/PKG-INFO  

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* /opt/cola/permits/1156048099_1619118225.9/0/setuptools-18-2-1-tar-gz/setuptools-18.2/setup.py  

1.1351 d-conf 0.28.0 4.el7  

1.1352 passwd 0.77-4.el6_2.2  

1.1352.1 Available under license:  


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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1369 libfontenc 1.1.3-3.el7

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1.1370 jersey-container-servlet 2.28

1.1370.1 Available under license:
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  jar/org/apache/hadoop/mapreduce/v2/api/protocolrecords/impl/package-info.java
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1.1372 perl-io-socket-ssl 1.94 7.el7

1.1373 java-cc 6.1.2

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1.1375 perl-autodie 2.16 2.el7

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
*/

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* http://www.hypermall.com/

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.

* 10/5/97 - added code to handlePHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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single nxt200x frontend driver.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.1398 jackson-dataformat-yaml 2.4.5

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*/

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#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;                                                     
#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;                                                                 
  int wcount;                                                                 
#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.1417 semantic_range 3.0.0

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1.1418 rdma-core 22.4-6.el7_9

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1.1423 unzip 6.0 19.el7

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-
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releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUT in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
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--------------------------------------------------------------------------

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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and piostream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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1.1428 sinatra 2.1.0

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1.1429 Linux-kernel 3.10.0

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*  
*/

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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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1.1434 zlib 1.2.7-19.el7_9

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* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/DateConverter.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/IntegerConverter.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/MapConverter.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/MapConverter.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/MapConverter.java
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* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/IStringConverterFactory.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/LongConverter.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/BaseConverter.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/ResourceBundle.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/converters/FloatConverter.java

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* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/IParameterValidator.java
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* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/validators/NoValidator.java
* /opt/cola/permits/1137305515_1614052133.9/0/jcommander-1-47-sources-1-jar/com/beust/jcommander/validators/NoValidator.java

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1.1442 jopt-simple 4.9

1.1443 google-go-cmp 0.5.4

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1.1444 pycparser 2.20

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pycparser -- A C parser in Python

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1.1446 glib-networking 2.56.1-1.el7

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1.1447 hadoop-client 2.2.0

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1.1448 vault-java-driver 2.0.0

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 * Intended for internal use by other classes within the Vault driver library.</p>
 *
 * JSON parsing functionality. The classes in this package are adapted from Ralf Sternberg's excellent
 * <a href="https://github.com/ralfstx/minimal-json">"minimal-json"</a> library, available under the MIT License.
 * The package names have all been changed, to prevent any conflicts should you happen to be using a different
 * version of this library elsewhere in your project dependencies.</p>
 */

Found in path(s):
* /opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2-0-0-sources-1-
jar/com/bettercloud/vault/json/package-info.java

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* /opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2-0-0-sources-1-
  jar/com/bettercloud/vault/json/Json.java
* /opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2-0-0-sources-1-
  jar/com/bettercloud/vault/json/WritingBuffer.java
* /opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2-0-0-sources-1-
  jar/com/bettercloud/vault/json/WriterConfig.java
* /opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2-0-0-sources-1-
  jar/com/bettercloud/vault/json/PrettyPrint.java

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*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/JsonArray.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/JsonParser.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/JsonNumber.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/JsonLiteral.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/JsonString.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/JsonObject.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/ParseException.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
jar/com/bettercloud/vault/json/JsonValue.java
*/opt/cola/permits/1215079187_1634330451.84/0/vault-java-driver-2.0.0-sources-1-
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1.1451 psutil 5.1.3-1.tet

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https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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**1.1460 attr 2.4.46 13.el7**

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<title>Notice Processing</title>
<meta name="GENERATOR" content="Modular DocBook HTML Stylesheet Version 1.79">
<link rel="MADE" href="mailto:pgsql-docs@postgresql.org">
<link rel="HOME" title="PostgreSQL 8.4.20 Documentation" href="index.html">
<link rel="UP" title="libpq - C Library" href="libpq.html">
<link rel="PREVIOUS" title="Miscellaneous Functions" href="libpq-misc.html">
<link rel="NEXT" title="Event System" href="libpq-events.html">
<link rel="STYLESHEET" type="text/css" href="stylesheet.css">
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<meta name="creation" content="2014-02-17T20:05:31"/>
</head>
<body class="SECT1">
<div class="NAVHEADER">
<table summary="Header navigation table" width="100%">
</table>
</div>

---

Open Source Used In Secure Workload 3.6.1.1 18742
Chapter 30. libpq - C Library
Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on stdout, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function PQsetNoticeReceiver
sets or examines the current notice receiver for a connection object. Similarly, \texttt{PQsetNoticeProcessor} sets or examines the current notice processor.

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by \texttt{libpq}, the notice receiver function is called. It is passed the message in the form of
a <TT CLASS="SYMBOL">PGRES_NONFATAL_ERROR</TT> <TT CLASS="STRUCTNAME">PGresult</TT>.  (This allows the receiver to extract individual fields using <CODE CLASS="FUNCTION">PQresultErrorField</CODE>, or the complete preformatted message using <CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>.) The same void pointer passed to <CODE CLASS="FUNCTION">PQsetNoticeReceiver</CODE> is also passed.  (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using <CODE CLASS="FUNCTION">PQresultErrorMessage</CODE> and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form.  It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to <CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE>.  (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```c
static void
defaultNoticeProcessor(void *arg, const char *message)
{
```
fprintf(stderr, "\%s", message);

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the

PGconn or PGresult objects exist. At creation of a PGresult, the PGconn’s current notice handling pointers are copied into the PGresult for possible use by functions like PQgetvalue.
<table>
<thead>
<tr>
<th>Miscellaneous Functions</th>
<th>Up</th>
<th>Event System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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This patch contains several fixes to NetBSD's indent and should be applied before using pgindent.

Index: README
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/README,v
retrieving revision 1.1
diff -c -r1.1 README
*** README 9 Apr 1993 12:59:06 -0000 1.1
--- README 15 Nov 2005 00:25:43 -0000
***************
*** 1,3 ****
--- 1,13 ----
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
++
+---------------------------------------------------------------------------
This is the C indenter, it originally came from the University of Illinois via some distribution tape for PDP-11 Unix. It has subsequently been hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs

Index: indent_globs.h

===================================================================
RCS file: /cvsroot/src/usr.bin/indent/indent_globs.h,v
retrieving revision 1.8
diff -c -r1.8 indent_globs.h
*** indent_globs.h7 Aug 2003 11:14:08 -0000.1.8
--- indent_globs.h15 Nov 2005 00:25:44 -0000
***************
*** 239,245 ****
     scomf,/* Same line comment font */
     bodyf,/* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
   int last_token;
--- 239,249 ----
     scomf,/* Same line comment font */
     bodyf,/* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
   int last_token;
Index: lexi.c

===================================================================
RCS file: /cvsroot/src/usr.bin/indent/lexi.c,v
retrieving revision 1.12
diff -c -r1.12 lexi.c
*** lexi.c7 Aug 2003 11:14:09 -0000.1.12
--- lexi.c15 Nov 2005 00:25:44 -0000
***************
*** 93,99 ****
     int rwcode;
};

! struct templ specials[1000] =
{
   {"switch", 1},
   {"case", 2},
--- 93,99 ----
int rwcode;
;
!

struct templ specials[16384] =
{
{"switch", 1},
{"case", 2},

***************

*** 622,629 ****
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
!  return; /* For now, table overflows are silently
!  * ignored */
  p->rwd = key;
  p->rwcode = val;
  p[1].rwd = 0;
--- 622,632 ----
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
!  }
  ! fprintf(stderr, "indent: typedef table overflow\n");
  ! exit(1);
  ! }
  !
  p->rwd = key;
  p->rwcode = val;
  p[1].rwd = 0;
Index: parse.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/parse.c,v
retrieving revision 1.7
diff -c -r1.7 parse.c
*** parse.c7 Aug 2003 11:14:09 -0000 -00001.7
--- parse.c15 Nov 2005 00:25:44 -0000
***************

*** 231,236 ****
--- 231,241 ----
/* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+    fprintf(stderr, "indent: stack size overflow\n");
+    exit(1);
+ } 
+ reduce();/* see if any reduction can be done */
#ifdef debug
Index: pr_comment.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/pr_comment.c,v
retrieving revision 1.9
diff -c -r1.9 pr_comment.c
*** pr_comment.c.7 Aug 2003 11:14:09 -0000 1.9
--- pr_comment.c.15 Nov 2005 00:25:44 -0000
**************
*** 148,154 ****
ps.box_com = true;
ps.com_col = 1;
} else {
    if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '
') {
ps.box_com = true;/* a comment with a '-', '*' or newline immediately
* after the start comment is
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
    /*
    * Don't process '\n' or every comment is treated as a
    * block comment, meaning there is no wrapping.
    */
    if (*buf_ptr == '-' || *buf_ptr == '*') {
ps.box_com = true;/* a comment with a '-', '*' or newline immediately
* after the start comment is
**************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
} }
} while (*buf_ptr == ' ' || *buf_ptr == '	');
+
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+    *e_com++ = ' ';	/* add blanks for continuation */
+    *e_com++ = ' ';
+    *e_com++ = ' ';
+    now_col += 3;
1.1467 portreserve 0.0.4 11.el6
1.1467.1 Available under license:

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1.1468 aniso8601 4.1.0
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1.1469 perl-constant 1.27 2.el7

1.1470 ipset 6.20.1-1

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  * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
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Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)

1.1473 junit 3.8.1
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For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

/**
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 */

For src/main/native/src/org/apache/hadoop/io/compress/lz4/[lz4.h,lz4.c,lz4hc.h,lz4hc.c],

/*
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/
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For:

```javascript
for (var i = 0; i < data.length; i++) {
  // process data
}
```

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Mockito 1.8.5
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  jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java
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jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
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jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
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1.1480 rake 13.0.1

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* /opt/cola/permits/1135953508_1613640887.59/0/woodstox-core-5-0-3-3-jar/META-INF/maven/com.fasterxml.woodstox/woodstox-core/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1472011116283
Build-Jdk: 1.7.0_79
Built-By: tatu
Bundle-Description: Woodstox is a high-performance XML processor that implements Stax (JSR-173), SAX2 and Stax2 APIs
Bundle-DocURL: https://github.com/FasterXML/woodstox
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Woodstox
Bundle-SymbolicName: com.fasterxml.woodstox.woodstox-core
Bundle-Vendor: FasterXML
Bundle-Version: 5.0.3
Created-By: Apache Maven Bundle Plugin
Export-Package: com.ctc.wstx.api;version="5.0.3",com.ctc.wstx.cfg;version="5.0.3",com.ctc.wstx.compat;version="5.0.3",com.ctc.wstx.dom;version="5.0.3",com.ctc.wstx.dtd;version="5.0.3",com.ctc.wstx.ent;version="5.0.3",com.ctc.wstx.evt;version="5.0.3",com.ctc.wstx.exc;version="5.0.3",com.ctc.wstx.io;version="5.0.3",com.ctc.wstx.msv;version="5.0.3",com.ctc.wstx.osgi;version="5.0.3",com.ctc.wstx.sax;version="5.0.3",com.ctc.wstx.sr;version="5.0.3",com.ctc.wstx.stax;version="5.0.3",com.ctc.wstx.sw;version="5.0.3",com.ctc.wstx.util;version="5.0.3"
Implementation-Build-Date: 2016-08-24 03:58:19+0000
Implementation-Title: Woodstox
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.woodstox
Implementation-Version: 5.0.3
1.1482 tcl 8.6.6

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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Licenses are intended to guarantee your freedom to share and change free software— to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

^L

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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**Apache**

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli
- org.apache.tomcat:tomcat-jsp-api
- org.apache.tomcat:tomcat-el-api
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-api
- org.apache.tomcat:tomcat-util-scan
- org.apache.tomcat:tomcat-util

- org.mortbay.jasper:apache-el
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-el-api

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1.1493 libsodium 1.0.15

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/servlet-api

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

1.1501 pytz 2017.3

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1.1502 sed 4.2.2

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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* /opt/cola/permits/1137305731_1614052349.54/0/jetty-sslengine-6-1-26-sources-4-
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- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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```c
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
```

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+++++++++++++++  

Dean Elsner wrote the original gas for vax. [more details?]  

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library.
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

    b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
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impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

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Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
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of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/io/Closer.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/AbstractMultimap.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedLists.java

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jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
jar/jersey/repackaged/com/google/common/cache/Striped64.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash
 * method in OpenJDK 7's java.util.HashMap class.
 */

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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/Count.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/RangeSet.java
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  jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
  /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
  /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
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  jar/jersey/repackaged/com/google/common/hash/Funnel.java
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  jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
  /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/collect/RegularContiguousSet.java
  /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
  /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
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jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
jar/jersey/repackaged/com/google/common/collect/BoundType.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/MapMaker.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/SparseImmutableTable.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collection/FilteredKeyMultimap.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
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hostname -- set the host name or show the host/domain name

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1.1525 ncurses 6.2_p20200523-r0

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------------------------------------------------------------------------
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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1.1528 go-shellwords 1.0.3

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1.1529 widgetsnbextension 1.2.6

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Open Source Used In Secure Workload 3.6.1.1 19440
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The module cache

var installedModules = {};

function __webpack_require__(moduleId) {
  if (installedModules[moduleId]) return installedModules[moduleId].exports;
  var module = installedModules[moduleId] = {
    exports: {},
    id: moduleId,
    loaded: false
  };__webpack_require__.f(module, module.exports, __webpack_require__);module.loaded = true;
  return module.exports
}
of the module

```javascript
	return module.exports;
}

// expose the modules object
		return module.exports;
	}


// expose the modules object


/**
 * Create a widget manager for a kernel instance.
 */
var handle_kernel = function(Jupyter, kernel) {
    if

if

```
Object.keys(comm_ids).map(function(comm_id) {
            return that._create_comm(that.comm_target_name,
            comm_id);
        });

        // Send a state request message out for each widget comm and wait
        // for the
        return Promise.all(comm_promises).then(function(comms) {
            return Promise.all(comms.map(function(comm) {
                var update_promise = new Promise(function(resolve, reject) {
                    resolve({
                        comm: comm,
                        msg: msg
                    });
                });

                comm.send({
                    method: 'request_state'
                }, that.callbacks());

                comm.on_msg(function (msg) {

                    // A suspected response was received, check to
                    // see if
                    // it’s a state update. If so, resolve.
                    if (msg.content.data.method === 'update') {
                        resolve({
                            comm: comm,
                            msg: msg
                        });
                    }
                });
            }));
        }));
    });

    // Setup state saving code.
    this.notebook.events.on('before_save.Notebook', (function() {

        // Append snapshots of the widgets to the
        // notebook’s state before
        // saving the notebook.
        this.prependSnapshots();

        var save_callback = WidgetManager._save_callback;
        var options = WidgetManager._get_state_options;
        if (save_callback) {
            this.get_state(options).then((function(state) {
                save_callback.call(this, state);
            }));
        }
    }));

    // Validate the version requested by the backend.
    var validate = (function validate() {
        this.validateVersion().then(function(valid) {
            if (!valid) {
                console.warn('Widget frontend version
                does not match the backend.');
            }
        }).catch(function(err) {
            console.warn('Could not cross
            validate the widget frontend and backend versions.', err);
        });
    });

    // Delete the snapshots when the notebook has saved, failed to
    // save, is
    // loaded from disk, and when the widget manager is constructed.
    this.notebook.events.on('notebook_saved.Notebook', this.deleteSnapshots.bind(this));
    this.notebook.events.on('notebook_save_failed.Notebook', this.deleteSnapshots.bind(this));
    this.notebook.events.on('notebook_loaded.Notebook', this.deleteSnapshots.bind(this));
    this.deleteSnapshots();

    // Create the actions and menu
    this._init_actions();
    this._init_menu();

    // Initialize the widget screenshot rendering dialog.
    this.progressModal = new progressModal.ProgressModal();
};
WidgetManager.prototype =
    Object.create(widgets.ManagerBase.prototype);

WidgetManager._managers = []; /* List of widget managers
 * List of widget managers
 * *@

/*
 * Registers a widget model by name.
 * *@

/*
 * Registers a widget view by name.
 * *@

/*
 * Registers a widget model by name.
 * *@

/*
 * Registers a widget view by name.
 * *@

/*
 * Registers callbacks for widget state persistence.
 * *@

/*
 * Parameters
 * *@

/*
 * function that is called when the widget manager state should be
 * loaded.
 * This function should return a promise for the widget
 * manager state. An empty state is an empty dictionary
 * { }
 * save_callback: function(state as dictionary)
 * * function that is called when the notebook is saved

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or autosaved. The current state of the widget manager is passed in as the first argument.

WidgetManager._load_callback = load_callback;
WidgetManager._save_callback = save_callback;
WidgetManager._get_state_options = options || {};

// Use the load callback to immediately load widget states.
WidgetManager.managers.forEach(function(manager) {
    if (load_callback) {
        Promise.resolve().then(function () {
            return load_callback.call(manager);
        }).then(function(state) {
            manager.set_state(state);
        }).catch(widgets.reject('Error loading widget manager state', true));
    }
});

// Use local storage to persist widgets across page refresh by default. LocalStorage is per
// domain, so we need to explicitly set the URL that the widgets are associated with so they don't show on other
// pages hosted by the notebook server.
var url = [window.location.protocol, '//', window.location.host, window.location.pathname].join('');
var key = 'widgets:' + url;
WidgetManager.set_state_callbacks(function() {
    if (Jupyter.notebook.metadata.widgets) {
        return Promise.resolve(Jupyter.notebook.metadata.widgets.state);
    }
    return Promise.resolve({});
}, function(state) {
    var stateToSave = {};
    _.mapObject(state, function(widgetState, key) {
        // don't persist widget state with no views
        if (widgetState.views.length === 0) return;
        // Only persist the views of the widget stateToSave[key] = _pick(widgetState, 'views');
    });
    // check if there are any views to persist
    if (Object.keys(stateToSave).length === 0) {
        // no widget state, don't save empty widget state in metadata
        delete Jupyter.notebook.metadata.widgets;
    } else {
        Jupyter.notebook.metadata.widgets = {
            state: stateToSave,
            // Persisted widget state
            version: version,
        };
    }
});

WidgetManager.prototype._handle_display_view = function (view) {
    /**
     * Have the IPython keyboard manager disable its event handling so the widget can capture
     * keyboard input.
     * Note, this is only done on the outer most widgets.
     */
    view.trigger('displayed');
    if (this.keyboard_manager) {
        this.keyboard_manager.register_events(view.el);
        if (view.additional_elements) {
            for (var i = 0; i < view.additional_elements.length; i++) {
                this.keyboard_manager.register_events(view.additional_elements[i]);
            }
        }
    }
};

/**
 * Registers manager level actions with the notebook actions list
 */
WidgetManager.prototype._init_actions = function() {
    var notifier = Jupyter.notification_area.new_notification_widget('widgets');

    this.buildSnapshotsAction = {
        handler: (function() {
            this.updateSnapshots().then((function() {
                notifier.set_message('Widgets rendered', 3000);
            }).bind(this));
        }).bind(this),
        icon: 'fa-truck',
        help: 'Rasterizes the current state of the widgets to the notebook as PNG images.'
    };

    Jupyter.menubar.actions.register(this.buildSnapshotsAction, 'save-with-snapshots', 'widgets');

    Initialize the widget menu
    *An WidgetManager.prototype._init_menu = function() {
        // Add a widgets menubar item, before help.
        if (help) {
            var widgetsMenu = document.createElement('li');
            widgetsMenu.classList.add('dropdown');
            widgetsMenu.appendChild(this._createMenuItem('Save notebook with snapshots', this.buildSnapshotsAction));
            widgetsMenu.appendChild(this._createMenuItem('Download widget state', saveState.action));
            widgetsMenu.appendChild(this._createMenuItem('Embed widgets', embedWidgets.action));
        } else {
            var widgetsMenu = document.createElement('li');
            widgetsMenu.appendChild(this._createMenuItem('Save notebook with snapshots', this.buildSnapshotsAction));
            widgetsMenu.appendChild(this._createMenuItem('Download widget state', saveState.action));
            widgetsMenu.appendChild(this._createMenuItem('Embed widgets', embedWidgets.action));
        }
    }
if (msg) {
    var cell = this.get_msg_cell(msg.parent_header.msg_id);
    if (cell === null) {
        return Promise.reject(new Error("Could not determine where the display messages were from.

    Only set cell_index when view is displayed as directly.
    
    options.cell_index = this.notebook.find_cell_index(cell);
    return widgets.ManagerBase.prototype.display_model.call(this, msg, model, options);
    } else if (options && options.cell_index !== undefined) {
        var cell = this.notebook.get_cell(options.cell_index);
        return widgets.ManagerBase.prototype.display_model.call(this, msg, model, options)
            .catch(widgets.reject('Could not display model', true));
    } else {
        return Promise.reject(new Error("Could not determine which cell the message was from.  

    Widget will not be displayed.
    
    View will not be displayed.
    
    Option: cell.widgetarea (can be used for ultra-fast cell rendering)
    
    Not triggered by a cell or widget (no get_cell callback exists).
    
    @return {Promise} success
    
    */
 Widgets.prototype.updateSnapshots = function() {
    var that = this;
    var site = document.querySelector('#site');

    // Wait for the progress modal to show before continuing
    return this.progressModal.show().then(function() {
        // Disable overflow to prevent the document from having elements
        // that are scrolled out of visibility.
        site.style.overflow = 'visible';
        document.body.style.overflow = 'hidden';
        // Render the widgets of each cell.
        that._progress = 0;
        var cells = Jupyter.notebook.get_cells();
        that._sequentialPromise(cells.map(that._updateCellSnapshots.bind(that))).then(function() {
            // When all of the rendering is complete, re-enable scrolling in the notebook.
            // Also, reset the values of the modal
            that.progressModal.setText('Rendering widgets...');
            return that.progressModal.setValue(0);
        }).then(function() {
            // Invoke a notebook save
            Jupyter.menubar.actions.get('jupyter-notebook:save-notebook').handler({notebook: Jupyter.notebook});
        }).catch(widgets.reject('Could not create widget snapshots and save the notebook', true));
    }).then(function() {
        // Wait for the progress modal to show before continuing
        return this.progressModal.show().then(function() {
            // Disable overflow to prevent the document from having elements
            // that are scrolled out of visibility.
            site.style.overflow = 'visible';
            document.body.style.overflow = 'hidden';
            // Render the widgets of each cell
            that._progress = 0;
            var cells = Jupyter.notebook.get_cells();
            return
    that._sequentialPromise(cells.map(that._updateCellSnapshots.bind(that))).then(function() {
            // When all of the rendering is complete, re-enable scrolling in the notebook.
            // Also, reset the values of the modal
            that.progressModal.setText('Rendering widgets...');
            return that.progressModal.setValue(0);
        }).then(function() {
            // Invoke a notebook save
            Jupyter.menubar.actions.get('jupyter-notebook:save-notebook').handler({notebook: Jupyter.notebook});
        }).catch(widgets.reject('Could not create widget snapshots and save the notebook', true));
    });
}
that.progressModal.setValue(++that._progress/cells.length);

} return that.progressModal.setText('Rendering widget ' + String(index + 1) + '/' + String(cells.length) + ' ...').then(function() {

    var canvas = results[0];
    var widgetState = results[1];
    // Remove URL information, so only the b64 encoded data
    // exists, because that's what the notebook likes.
    var imageMimetype = 'image/png';
    var imageDataUrl = canvas.toDataURL(imageMimetype);
    var imageData = imageDataUrl.split(',').slice(-1)[0];
    // Create a mime bundle.
    var bundle = {[
        'imageMimetype': imageMimetype,
        'text/html': widgets.generateEmbedScript(widgetState, imageDataUrl)
    ]};
    that.progressSubarea.widgetSnapshot = bundle;

}).then(function() {

    that.progressModal.setValue(++that._progress/cells.length);

});

WidgetManager.prototype.getCellWidgetStates = function(cell, index) {

    var modelIds = Object.keys(this._models);
    return Promise.all(modelIds.map(function(modelId) {

        return this._models[modelId].then(function(model) {

            return widgets.resolvePromisesDict(model.views).then(function(views) {

                if (Object.keys(views).some(function(k) {

                    return views[k].options.cell_index == index;
                })) {

                    return that._traverseWidgetTree(model)
                        .map(function(widget) {

                            return widget.get_state(true);
                        });
                }
                return [null];
            });
        });
    })).then(function(states) {

        return states
            .reduce(function(a, b) { return a.concat(b); }, []);
    });

};

WidgetManager.prototype._traverseWidgetTree = function(parentWidget, cache) {

    if (!cache) {

        cache = {};
    }

    // Don't continue if this widget has already been traversed
    if (parentWidget.id in cache) {

        return [];
    }

    // Remember that this widget has been traversed
    cache[parentWidget.id] = true;

    // Traverse the parent widget's state for child widgets
    var state = parentWidget.get_state(true);
    var subWidgets = this._traverseWidgetState(state);
    var that = this;
    return _.flatten(subWidgets.map(function(subWidget) {

        return that._traverseWidgetTree(subWidget, cache);
    })).concat([parentWidget]);

};

WidgetManager.prototype._traverseWidgetState = function(state) {

    if (state instanceof widgets.WidgetModel) {

        return [state];
    } else if (_.isArray(state)) {

        return _.flatten(state.map(this._traverseWidgetState.bind(this)));
    } else if (state instanceof Object) {

        var states = [];
        _.each(state, function(value, key) {

            states.push(that._traverseWidgetState(value));
        });

        return _.flatten(states);
    } else {

        return [null];
    }

};

/**
 * Create a sequentially executed promise chain
 * from an array of promises.
 * @param  {Array<Promise>} promises
 * @return {Promise}
 */
WidgetManager.prototype._sequentialPromise = function(promises) {

    var chain = Promise.resolve();

    promises.forEach(function(promise) {

        chain = chain.then(function() {

            return promise;
        });
    });

    return chain;

};

/**
 * Rasterize an HTMLElement to and HTML5 canvas
 * @param {HTMLElement} el
 * @return {Promise<HTMLCanvasElement>}
 */
WidgetManager.prototype._rasterizeEl = function(el) {

    return new Promise(function(resolve) {

        html2canvas(el, {

            onrendered: function(canvas) {

                resolve(canvas);
            }
        });
    });

};

/**
 * Render the widget views
 *
 * that are live as images and prepend them as
 * outputs. This function must be synchronous, in order
 * to work with the notebook's save machinery.
 */
WidgetManager.prototype.prependSnapshots = function() {

    var cells = Jupyter.notebook.get_cells();
    cells.forEach(function(cell) {

        var widgetSubarea = cell.element[0].querySelector(".widget-subarea");

        if (widgetSubarea && widgetSubarea.children.length > 0 &
            widgetSubarea.widgetSnapshot) {

            // Create an output for the screenshot.

            var output = {

                data: widgetSubarea.widgetSnapshot,
                output_type: "display_data",
                metadata: {
                    isWidgetSnapshot: true
                }
            };

            // Move the new output to the top, so it appears above
            // the widget area appears.

            var outputState = cell.output_area.outputs;

            outputState.splice(0, 0, output); cell.output_area.outputs = outputState;

            // Remove the outputs that rendered widget view's.

            var var cells =
isWidgetSnapshot: true
   if (cell.output_area) {
      // Filter out outputs that are snapshots
      if (output.metadata & output.metadata.isWidgetSnapshot) {
        return
      }
   }
   var that = this;
   return this.get_connected_kernel().then(function(kernel) {
      if (data) {
        return
      } else {
        return new Promise(function(resolve) {
          requirejs(['services/kernels/comm'], function(comm) {
            var new_comm = new comm.Comm(comm_target_name, model_id);
            kernel.comm_manager.register_comm(new_comm);
            resolve(new_comm);
          });
        });
      }
    });
  };

  WidgetManager.prototype.callbacks = function(view) {
    /**
     * Callback handlers specific to a view
     */
    var callbacks = {};
    if (view && view.options.cell) {
      var cell = view.options.cell;
      var handle_output = null;
      var handle_clear_output = null;
      if (cell.output_area) {
        handle_output = _.bind(cell.output_area.handle_output, cell.output_area);
        handle_clear_output = _.bind(cell.output_area.handle_clear_output, cell.output_area);
      }
      var that = this;
      callbacks = {
        iopub: {
          output: handle_output,
          clear_output: handle_clear_output,
          get_cell: function() {
            return cell;
          }
        },
      };
    }
    return callbacks;
  };

  WidgetManager.prototype._get_comm_info = function() {
    /**
     * Gets a promise for the valid widget models.
     */
    var that = this;
    return new Promise(function(resolve, reject) {
      that._get_connected_kernel().then(function(kernel) {
        kernel.comm_info('jupyter.widget', function(msg) {
          resolve(msg['content']['comms']);
        });
      });
    });
  };

  WidgetManager.prototype._get_connected_kernel = function() {
    /**
     * Gets a promise for a connected kernel
     */
    var that = this;
    return new Promise(function(resolve, reject) {
      if (that._connected_kernel &&
          that._connected_kernel.is_connected()) {
        resolve(that._connected_kernel);
      } else {
        that.notebook.events.on('kernel_connected.Kernel', function(event, data) {
          resolve(data.kernel);
        });
      }
    });
  };

  module.exports = {
    WidgetManager: WidgetManager
  };
});

// Underscore.js 1.8.3
// http://underscorejs.org
// (c) 2009-2015 Jeremy Ashkenas, DocumentCloud and Investigative Reporters & Editors
// Underscore may be freely distributed under the MIT license.
(function() {
  // Baseline setup
  // --------------

  // Establish the root object, `window` in the browser, or `exports` on the server.
  var root = this;

  // Save the previous value of the `_` variable.
  var previousUnderscore = root._;

  // Save bytes in the minified (but not gzipped) version.
  var
    ArrayProto = Array.prototype, ObjProto = Object.prototype, FuncProto = Function.prototype;

  // Create quick reference variables for speed access to core prototypes.
  var
    push             = ArrayProto.push,
    slice            = ArrayProto.slice,
    toString         = ObjProto.toString,
    hasOwnProperty   = ObjProto.hasOwnProperty;

  // All **ECMAScript 5** native function implementations that we hope to use
  // are declared here.
  var
    nativeIsArray      = Array.isArray,
    nativeKeys         = Object.keys,
    nativeBind         = Function.bind,
    nativeCreate       = Object.create,
    nativeCreateObject = Object.create,
    nativeFunction     = Function,
    nativeIsFunction   = nativeFunction.isPrototypeOf,
    nativeInstanceOf   = nativeIsFunction
  // Export the Underscore object for **Node.js**, with
  // backwards-compatibility for the old `require()` API. If we're
  // in the browser, add `_` as a global object. if (typeof exports !== 'undefined') {
  // if (typeof module
Open Source Used In Secure Workload 3.6.1.1 

The following code snippet demonstrates the use of the `reduce` function in JavaScript, which is a fundamental function for working with collections.

```javascript
// A mostly-internal function to generate callbacks that can be applied
// to each element in a collection, returning the desired result — either
// identity, an arbitrary callback, a property matcher, or a property accessor.

var varCb = function(value, context, argCount) {
  if (value == null) return null;
  if (argCount === 3) { argCount = 2; }
  return function(accumulator, value, index, collection) {
    return func.apply(context, arguments);
  };
}

var optimizeCb = function(func, context, argCount) {
  var returnValue = null;
  var returnObj = null;
  var value = func;
  if (value == null) value = void 0;
  if (context === void 0) return func;
  return function(value, context) {
    return func.apply(context, arguments);
  };
}
```

This code provides a way to optimize callbacks, which is useful when working with collections in JavaScript. It demonstrates how to create callbacks that can be applied to each element in a collection, returning the desired result.
The internal `guard` argument allows it to work with `map`.

```javascript
_.sample = function(obj, n, guard) {
    if (n == null
      if (computed < lastComputed || computed === Infinity && result === Infinity) {
          result = value;
          lastComputed = computed;
        }
      });
    }
    return
    function(obj, attrs) {
    return _.filter(obj, _.matcher(attrs));
  };

  // Convenience version of a common use case of `find`: getting the first object containing specific `key:value` pairs.
  _.findWhere = function(obj, attrs) {
    var result = Infinity, lastComputed = Infinity,
        value, computed;
    if (iteratee == null && obj != null) {
      obj = isArrayLike(obj) ? obj : _.values(obj);
      for (var i = 0, length = obj.length; i < length; i++) {
        value = obj[i];
        if (value < result) {
          result = value;
        }
      }
    } else {
      iteratee = cb(iteratee, context);
    }
    return result;
  };

  // Return the maximum element (or element-based computation).
  _.max = function(obj, iteratee, context) {
    var result = -Infinity, lastComputed = -Infinity,
        value, computed;
    if (iteratee == null && &obj !:] null) {
      obj = isArrayLike(obj) ? obj : _.values(obj);
      for (var i = 0, length = obj.length; i < length; i++) {
        value = obj[i];
        if (value > result) {
          result = value;
        }
      }
    } else {
      iteratee = cb(iteratee, context);
    }
    return result;
  };

  // Determine if at least one element in the object matches a truth test.
  // Aliased as `any`.
  _.some = _.any
```

```javascript
function(obj, predicate, context) {
    var result = false;
    if (computed < lastComputed || computed === -Infinity && result === false) {
          result = value;
          lastComputed = computed;
        }
      });
    }
    return
```

```javascript
return _.map(obj, function(value) {
      var func = isFunc ? method : value[method];
      return func == null ?
```

```javascript
return _.shuffle(obj).slice(0, Math.max(0, n));
  };

  // Sort the object's values by a criterion produced by an iteratee.
```
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```javascript
// Determines whether to execute a function as a constructor
// or a normal function with the
idx++, start += step) {
    range[idx] = start;
}  

return range;
} // Functions
// -
Math.max(Math.ceil((stop - start) / step), 0);
    var range = Array(length);

    for (var idx = 0; idx < length; 

    if (stop == null) {
      stop = start || 0;
      start = 0;
    }
    step = step || 1;

    var length =

  [start, stop, step] = args;
  var length = getLength(array);
  var result = Array(length);

  for (var i = 0, length = getLength(array); i < length; i++) {
      result[i] = array[i];
  } 

  return result;
} // Take the difference between one array and a number of other arrays.

// Only the elements present in just the first array will remain.

  // the native Python `range()` function. See
  // [the Python documentation](http://docs.python.org/library/functions.html#range).
  _.range = function(start, stop, step) {
    if
    (arguments.length) continue;
    for (var j = 1; j < argsLength; j++) {

      if (!_.contains(arguments[j], item)) break;
    } 
    return !_.contains(rest, value)) ;
} }; 

// Zip together multiple lists into a single array -- elements that share \n // an index go together.

  // Complement of `\_.zip`. Unzip accepts an array of arrays and group\n // each array's elements on shared indices

  // converts lists into objects. Pass either a single array of
  // pairs, or two parallel arrays of the same length -- one of keys, and one \n // the corresponding values.

  // object function, values, \n
  // Convert a wom of values into a the

  // Generate function to create the findIndex and findLastIndex functions

  // Generates a test function that passes a predicate as the \n
  // The first index on an array-like that passes a \n
  // Returns the position of the first occurrence of an item in an array, \n // or -1 if the item is not included in the array.

  // If the array is large and already in sort order, pass `true` \n
  // to use binary search.

  // Generate an integer Array containing an arithmetic progression. A port of

  // the native Python `range()` function. See\n  // [the Python documentation](http://docs.python.org/library/functions.html#range).
  _.range = function(start, stop, step) {
    if
    (stop == null) {
      stop = step || 0; \n      start = step || 1; \n      var length = Math.max(Math.ceil((stop - start) / step), 0);
    } 

    var range = Array(length);

    for (var idx = 0; idx < length; id++; step) {
      var range[idx] = start;
      return range;
  }

  // Determines whether to execute a function as a constructor\n // or a normal function with the provided arguments

  var executeBound = function(sourceFunc, boundFunc, context, callingContext, args) {
    \n    if
```
Open Source Used In Secure Workload 3.6.1.1 19503
This code snippet demonstrates deep object comparison using a function named `isEqual`. It checks if two objects have the same properties and values, considering objects in arrays as well. The code uses underscore.js, a popular JavaScript utility library. The `isEqual` function iterates over the properties of one object and compares them with the corresponding properties in another object, ensuring that both objects contain the same number of properties before comparing deep equality. Special care is taken to handle cyclic structures and primitive types correctly. This comparison is useful in scenarios where objects might share references or when dealing with nested structures.
// Extracts the result from a wrapped and chained object.

_.prototype.value = function() {
  return this._wrapped;
};

// Provide unwrapping proxy for some methods used in engine operations
// such as arithmetic and JSON stringification.

_.prototype.valueOf = function() {
  return this._wrapped;
};

// AMD registration happens at the end for compatibility with AMD loaders
// that may not enforce next-turn semantics on modules. Even though general
// practice for AMD registration is to be anonymous, underscore registers
// as a named module because, like jQuery, it is a base library that is
// popular enough to be bundled in a third party lib, but not part of
// an AMD load request. Those cases could generate an error when
// anonymous define() is called outside of a loader request.

if (typeof define === 'function' && define.amd) {
  define('underscore', [], function() {
    return _;
  });
}
}.call(this));

/*********
 ** WEBPACK FOOTER
 ** module id = 2
 ** module chunks = 0
 **/
(_.isFunction(iteratee)) return iteratee;\n if (_.isObject(iteratee) && !instance._isModel(iteratee)) return
modelMatcher(iteratee);\n if (_.isString(iteratee)) return function(model) { return model.get(iteratee); };\n return
iteratee;\n };\n var modelMatcher = function(attrs) {\n var matcher = _.matches(attrs);\n return function(model)
{\n
return matcher(model.attributes);\n };\n };\n\n // Backbone.Events\n // ---------------\n\n // A module that
can be mixed in to *any object* in order to provide it with\n // a custom event channel. You may bind a callback to
an event with `on` or\n // remove with `off`; `trigger`-ing an event fires all callbacks in\n // succession.\n //\n //
var object = {};\n // _.extend(object, Backbone.Events);\n // object.on('expand', function(){ alert('expanded');
});\n // object.trigger('expand');\n //\n var Events = Backbone.Events = {};\n\n // Regular expression used to
split event strings.\n var eventSplitter = /\\s+/;\n\n // Iterates over the standard `event, callback` (as well as the
fancy multiple\n // space-separated events `\"change blur\", callback` and jQuery-style event\n // maps `{event:
callback}`).\n var eventsApi = function(iteratee, events, name, callback, opts) {\n var i = 0, names;\n if (name
&& typeof name === 'object') {\n
// Handle event maps.\n
if (callback !== void 0 && 'context' in opts &&
opts.context === void 0) opts.context = callback;\n
for (names = _.keys(name); i < names.length ; i++) {\n
events = eventsApi(iteratee, events, names[i], name[names[i]], opts);\n
}\n } else if (name &&
eventSplitter.test(name)) {\n
// Handle space-separated event names by delegating them individually.\n
for
(names = name.split(eventSplitter); i < names.length; i++) {\n
events = iteratee(events, names[i], callback,
opts);\n
}\n } else {\n
// Finally, standard events.\n
events = iteratee(events, name, callback, opts);\n }\n
return events;\n };\n\n // Bind an event to a `callback` function. Passing `\"all\"` will bind\n // the callback to all
events fired.\n Events.on = function(name, callback, context) {\n return internalOn(this, name, callback,
context);\n };\n\n // Guard the `listening` argument from the public API.\n var internalOn = function(obj, name,
callback, context, listening) {\n obj._events = eventsApi(onApi, obj._events || {}, name, callback, {\n
context:
context,\n
ctx: obj,\n
listening: listening\n });\n\n if (listening) {\n
var listeners = obj._listeners ||
(obj._listeners = {});\n
listeners[listening.id] = listening;\n }\n\n return obj;\n };\n\n // Inversion-of-control
versions of `on`. Tell *this* object to listen to\n // an event in another object... keeping track of what it's listening
to\n // for easier unbinding later.\n Events.listenTo = function(obj, name, callback) {\n if (!obj) return this;\n
var id = obj._listenId || (obj._listenId = _.uniqueId('l'));\n var listeningTo = this._listeningTo || (this._listeningTo =
{});\n var listening = listeningTo[id];\n\n // This object is not listening to any other events on `obj` yet.\n //
Setup the necessary references to track the listening callbacks.\n if (!listening) {\n
var thisId = this._listenId ||
(this._listenId = _.uniqueId('l'));\n
listening = listeningTo[id] = {obj: obj, objId: id, id: thisId, listeningTo:
listeningTo, count: 0};\n }\n\n // Bind callbacks on obj, and keep track of them on listening.\n internalOn(obj,
name, callback, this, listening);\n return this;\n };\n\n // The reducing API that adds a callback to the `events`
object.\n var onApi = function(events, name, callback, options) {\n if (callback) {\n
var handlers =
events[name] || (events[name] = []);\n
var context = options.context, ctx = options.ctx, listening =
options.listening;\n
if (listening) listening.count++;\n\n
handlers.push({callback: callback, context: context,
ctx: context || ctx, listening: listening});\n }\n return events;\n };\n\n // Remove one or many callbacks. If
`context` is null, removes all\n // callbacks with that function. If `callback` is null, removes all\n // callbacks for the
event. If `name` is null, removes all bound\n // callbacks for all events.\n Events.off = function(name, callback,
context) {\n if (!this._events) return this;\n this._events = eventsApi(offApi, this._events, name, callback, {\n
context: context,\n
listeners: this._listeners\n });\n return this;\n };\n\n // Tell this object to stop listening to
either specific events ... or\n // to every object it's currently listening to.\n Events.stopListening = function(obj,
name, callback) {\n var listeningTo = this._listeningTo;\n if (!listeningTo) return this;\n\n var ids = obj ?
[obj._listenId] : _.keys(listeningTo);\n\n for (var i = 0; i < ids.length; i++) {\n
var listening =
listeningTo[ids[i]];\n\n
// If listening doesn't exist, this object is not currently\n
// listening to obj. Break out
early.\n if (!listening) break;\n\n
listening.obj.off(name, callback, this);\n }\n\n return this;\n };\n\n // The
reducing API that removes a callback from the `events` object.\n var offApi = function(events, name, callback,
options) {\n if (!events) return;\n\n var i = 0, listening;\n var context = options.context, listeners =
options.listeners;\n\n // Delete all events listeners and \"drop\" events.\n if (!name && !callback && !context)
{\n
var ids = _.keys(listeners);\n
for (; i < ids.length; i++) {\n
listening = listeners[ids[i]];\n
delete

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```javascript
this.parse(attrs, options) || {};
    var defaults = _.result(this, 'defaults');
    attrs = _.defaults(_.extend({}, defaults,

this.attributes = {};
    if (options.collection) this.collection = options.collection;
    if (options.parse) attrs =

(`cid`)
  // is automatically generated and assigned for you.
  var Model = Backbone.Model = function(attributes,

Backbone **Models** are the basic data object in the framework -- frequently representing a row in a table in a

// Backbone events have 3 arguments.
  Events.trigger = function(name) {
    if (!this._events) return this;

```

```javascript
```

```
```

```javascript
```

```javascript
```
// Attach all inheritable methods to the Model prototype.\n _.extend(Model.prototype, Events, {\n\n // A hash of
attributes whose current and previous value differ.\n changed: null,\n\n // The value returned during the last
failed validation.\n validationError: null,\n\n // The default name for the JSON `id` attribute is `\"id\"`.
MongoDB and\n // CouchDB users may want to set this to `\"_id\"`.\n idAttribute: 'id',\n\n // The prefix is used
to create the client id which is used to identify models locally.\n // You may want to override this if you're
experiencing name clashes with model ids.\n cidPrefix: 'c',\n\n // Initialize is an empty function by default.
Override it with your own\n // initialization logic.\n initialize: function(){},\n\n // Return a copy of the model's
`attributes` object.\n toJSON: function(options) {\n
return _.clone(this.attributes);\n },\n\n // Proxy
`Backbone.sync` by default -- but override this if you need\n // custom syncing semantics for *this* particular
model.\n sync: function() {\n
return Backbone.sync.apply(this, arguments);\n },\n\n // Get the value of an
attribute.\n get: function(attr) {\n
return this.attributes[attr];\n },\n\n // Get the HTML-escaped value of an
attribute.\n escape: function(attr) {\n
return _.escape(this.get(attr));\n },\n\n // Returns `true` if the attribute
contains a value that is not null\n // or undefined.\n has: function(attr) {\n
return this.get(attr) != null;\n
},\n\n // Special-cased proxy to underscore's `_.matches` method.\n matches: function(attrs) {\n
return
!!_.iteratee(attrs, this)(this.attributes);\n },\n\n // Set a hash of model attributes on the object, firing `\"change\"`.
This is\n // the core primitive operation of a model, updating the data and notifying\n // anyone who needs to
know about the change in state. The heart of the beast.\n set: function(key, val, options) {\n
if (key == null)
return this;\n\n
// Handle both `\"key\", value` and `{key: value}` -style arguments.\n
var attrs;\n
if (typeof
key === 'object') {\n
attrs = key;\n
options = val;\n
} else {\n
(attrs = {})[key] = val;\n
}\n\n
options || (options = {});\n\n
// Run validation.\n
if (!this._validate(attrs, options)) return false;\n\n
//
Extract attributes and options.\n
var unset
= options.unset;\n
var silent = options.silent;\n
var changes
= [];\n
var changing = this._changing;\n
this._changing = true;\n\n
if (!changing) {\n
this._previousAttributes = _.clone(this.attributes);\n
this.changed = {};\n
}\n\n
var current =
this.attributes;\n
var changed = this.changed;\n
var prev = this._previousAttributes;\n\n
// For each `set`
attribute, update or delete the current value.\n
for (var attr in attrs) {\n
val = attrs[attr];\n
if
(!_.isEqual(current[attr], val)) changes.push(attr);\n
if (!_.isEqual(prev[attr], val)) {\n
changed[attr] =
val;\n
} else {\n
delete changed[attr];\n
}\n
unset ? delete current[attr] : current[attr] = val;\n
}\n\n
// Update the `id`.\n
if (this.idAttribute in attrs) this.id = this.get(this.idAttribute);\n\n
// Trigger all
relevant attribute changes.\n
if (!silent) {\n
if (changes.length) this._pending = options;\n
for (var i = 0; i
< changes.length; i++) {\n
this.trigger('change:' + changes[i], this, current[changes[i]], options);\n
}\n
}\n\n
// You might be wondering why there's a `while` loop here. Changes can\n
// be recursively nested
within `\"change\"` events.\n
if (changing) return this;\n
if (!silent) {\n
while (this._pending) {\n
options = this._pending;\n
this._pending = false;\n
this.trigger('change', this, options);\n
}\n
}\n
this._pending = false;\n
this._changing = false;\n
return this;\n },\n\n // Remove an attribute from the
model, firing `\"change\"`. `unset` is a noop\n // if the attribute doesn't exist.\n unset: function(attr, options) {\n
return this.set(attr, void 0, _.extend({}, options, {unset: true}));\n },\n\n // Clear all attributes on the model,
firing `\"change\"`.\n clear: function(options) {\n
var attrs = {};\n
for (var key in this.attributes) attrs[key] =
void 0;\n
return this.set(attrs, _.extend({}, options, {unset: true}));\n },\n\n // Determine if the model has
changed since the last `\"change\"` event.\n // If you specify an attribute name, determine if that attribute has
changed.\n hasChanged: function(attr) {\n
if (attr == null) return !_.isEmpty(this.changed);\n
return
_.has(this.changed, attr);\n },\n\n // Return an object containing all the attributes that have changed, or\n //
false if there are no changed attributes. Useful for determining what\n // parts of a view need to be updated and/or
what attributes need to be\n // persisted to the server. Unset attributes will be set to undefined.\n // You can also
pass an attributes object to diff against the model,\n // determining if there *would be* a change.\n
changedAttributes: function(diff) {\n
if (!diff) return this.hasChanged() ? _.clone(this.changed) : false;\n
var
old = this._changing ? this._previousAttributes : this.attributes;\n
var changed = {};\n
for (var attr in diff) {\n
var val = diff[attr];\n
if (_.isEqual(old[attr], val)) continue;\n
changed[attr] = val;\n
}\n
return
_.size(changed) ? changed : false;\n },\n\n // Get the previous value of an attribute, recorded at the time the last\n

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this.sortBy(comparator);
      } else {
        this.models.sort(comparator);
      }
      if (!options.silent)
      var orderChanged = false;
      var replace = !(sort & add & & remove);

      if (set.length & & replace) orderChanged = this.length !== set.length || _.some(this.models, function(m, index) {
        return m !== set[index];
      });
      if (length === 1 || _.isString(comparator)) {
        this.models = n;
      if (_.isFunction(comparator)) comparator = _.bind(comparator, this);

      // Run sort based on type of `comparator`.
      if (length === 1 || _.isString(comparator)) {
        this.models = n;
      if (_.isFunction(comparator)) comparator = _.bind(comparator, this);

      // Return the added (or merged) model (or
      // models).
      return singular ? models[0] : models;
    },

    // When you have more items than you want to add or remove individually,
    // you can reset the entire set with a new list of models, without firing
    // any granular `add` or `remove` events. Fires `reset` when finished.
    reset: function(models, options) {
      options = options ? _.clone(options) : {};
      for (var i = 0; i < this.models.length; i++) {
        this._removeReference(this.models[i], options);
      }
      options.previousModels = this.models;
      this._reset();
      models = this.add(models, _.extend({silent: true}, options));
      if (!options.silent) {
        for (i = 0; i < toAdd.length; i++) {
          if (at != null) at = i;
          model = toAdd[i];
          model.trigger('add', model, this, options);
        }
        if (sort & orderChanged) this.trigger('sort', this, options);
        if (toAdd.length || toRemove.length || toMerge.length)
          options.changes = {
            added: toAdd,
            removed: toRemove,
            merged: toMerge
          };
          options.index = at + i;
          model = toAdd[i];
          model.trigger('add', model, this, options);
        }

        // If this is a new, valid model, push it to the `toAdd` list.
        if (!modelMap[existing.cid])
          modelMap[existing.cid] = true;
          this._prepareModel(model, options);
          this._addReference(model, options);

        // Pluck an attribute from each model in the
        models.slice();
        var orderChanged = false;
        var replace = !(sort & add & & remove);

        if (set.length & & replace) orderChanged = this.length !== set.length || _.some(this.models, function(m, index) {
          return m !== set[index];
        });
        if (length === 1 || _.isString(comparator)) {
          this.models = n;
        if (_.isFunction(comparator)) comparator = _.bind(comparator, this);

        // Run sort based on type of `comparator`.
        if (length === 1 || _.isString(comparator)) {
          this.models = n;
        if (_.isFunction(comparator)) comparator = _.bind(comparator, this);

        // Return the added (or merged) model (or
        // models).
        return singular ? models[0] : models;
    },

    // When you have more items than you want to add or remove individually,
    // you can reset the entire set with a new list of models, without firing
    // any granular `add` or `remove` events. Fires `reset` when finished.
    reset: function(models, options) {
      options = options ? _.clone(options) : {};
      for (var i = 0; i < this.models.length; i++) {
        this._removeReference(this.models[i], options);
      }
      options.previousModels = this.models;
      this._reset();
      models = this.add(models, _.extend({silent: true}, options));
      if (!options.silent) {
        for (i = 0; i < toAdd.length; i++) {
          if (at != null) at = i;
          model = toAdd[i];
          model.trigger('add', model, this, options);
        }
        if (sort & orderChanged) this.trigger('sort', this, options);
        if (toAdd.length || toRemove.length || toMerge.length)
          options.changes = {
            added: toAdd,
            removed: toRemove,
            merged: toMerge
          };
          options.index = at + i;
          model = toAdd[i];
          model.trigger('add', model, this, options);
        }

        // If this is a new, valid model, push it to the `toAdd` list.
        if (!modelMap[existing.cid])
          modelMap[existing.cid] = true;
          this._prepareModel(model, options);
          this._addReference(model, options);

        // Pluck an attribute from each model in the
collection.

```
pluck: function(attr) { return this.map(attr + ''); }  // Fetch the default set of models for this collection, resetting them when they arrive. If 'reset: true' is passed, the response will be passed through the 'reset' method instead of 'set'.
fetch: function(options) { options = _.extend({ parse: true }, options); var success = options.success; var collection = this; options.success = function(resp) { var method = options.reset ? 'reset' : 'set'; collection[method](resp, options); if (success) success.call(options.context, collection, resp, options); collection.trigger('sync', collection, resp, options); };

var sync = function(options) { return this.sync('read', this, options); };

var wrapError = function(options, callback) { if (success) callback.call(options.context, collection, options); collection.trigger('error', collection, options); if (wait) collection.add(m, callbackOptions); };

var model = this._prepareModel(model, options);

if (!model) return false;
if (!wait) this.add(model, options);
var collection = this;
var success = options.success = function(m, resp, callbackOptions) { if (wait) collection.add(m, callbackOptions); };

parse: function(resp, options) { if (!model) return false;
if (!options.success) return false;

var index = this.indexOf(model);
this.models.splice(index, 1);
this.length--;

remove references before triggering 'remove' event to prevent an infinite loop. #3693

var removed = [];

var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];

var removed = [];  // Create a new collection with an identical list of models as this one.

var options = arguments[0];
var collection = this;

if (success) callback.call(options.context, collection, options);

collection.trigger('error', collection, options);

if (wait) collection.add(model, callbackOptions);

if (success) collection.trigger('sync', collection, options);

var success = options.success = function(m, resp, callbackOptions) {
  if (!model) return false;
  if (!wait) this.add(model, options);
  var collection = this;
  var success = options.success = function(m, resp, callbackOptions) {
    if (wait) collection.add(m, callbackOptions);
    if (success) collection.trigger('sync', collection, options);
  }

  var collection = this;
  var success = options.success = function(m, resp, callbackOptions) {
    if (wait) collection.add(m, callbackOptions);
    if (success) collection.trigger('error', collection, options);
  }

  if (!model) return false;
  if (!wait) this.add(model, options);
  var collection = this;
  var success = options.success = function(m, resp, callbackOptions) {
    if (wait) collection.add(m, callbackOptions);
    if (success) collection.trigger('error', collection, options);
  })
```

```

var reference = this.indexOf(model);
model.collection;

model.off('all', this._onModelEvent, this);

var id = this.modelId(model.attributes);
if (id != null) this._byId[id] = model;
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];

var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```

```
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```

```
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```

```
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```

```
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```

```
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```

```
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```

```
var id = this.modelId(model.attributes);
if (id != null) delete this._byId[id];
```
Backbone Collections is actually implemented // right here:

```javascript
var collectionMethods = {forEach: 3, each: 3, map: 3, collect: 3, reduce: 0, foldl: 0, inject: 0, reduceRight: 0, foldr: 0, find: 3, filter: 3, select: 3, reject: 3, every: 3, all: 3, some: 3, any: 3, include: 3, includes: 3, contains: 3, invoke: 0, max: 3, min: 3, toArray: 1, size: 1, first: 3, head: 3, take: 3, initial: 3, rest: 3, tail: 3, drop: 3, last: 3, without: 0, difference: 0, indexOf: 3, shuffle: 1, lastIndexOf: 3, isEmpty: 1, chain: 1, sample: 3, partition: 3, groupBy: 3, countBy: 3, sortBy: 3, indexBy: 3, findIndex: 3, findLastIndex: 3};
```

// Mix in each Underscore method as a proxy to `Collection#models`.

```
addUnderscoreMethods(Collection, collectionMethods, 'models');
```

// Backbone.View

```
Backbone.Views are almost more convention than they are actual code. A View is simply a JavaScript object that represents a logical chunk of UI in the DOM. This might be a single item, an entire list, a sidebar or panel, or the surrounding frame which wraps your whole app. Defining a chunk of UI as a View allows you to define your DOM events declaratively, without having to worry about render order ... and makes it easy for the view to react to specific changes in the state of your models.
```

// Creating a Backbone.View creates its initial element outside of the DOM.

```
if an existing element is not provided, 
```

```javascript
View = Backbone.View = function(options) {
    this.cid = _.uniqueId('view');
    _extend(this, _pick(options, viewOptions));
    this._ensureElement();
    this.initialize.apply(this, arguments);
    // Cached regex to split keys for `delegate`.
    var delegateEventSplitter = /^(\S+)\s*(.*)$/;

    // List of view options to be set as properties.
    var viewOptions = [
        'model', 'collection', 'el', 'id', 'attributes', 'className', 'tagName', 'events'
    ];

    // Set up all inheritable **Backbone.View** properties and methods.
    _extend(this, View.prototype, Events, {});

    // The default `tagName` of a View's element is `\"div\"`. 
    this.tagName = 'div';

    // jQuery delegate for element lookup, scoped to DOM elements within the
    // current view. This should be preferred to global lookups where possible.
    $: function(selector) { return this.$el.find(selector); },

    // Initialize is an empty function by default. Override it with your own 
    initialize: function(){ },

    // `render` is the core function that your view should override, in order
    render: function() { return this; },

    // Prevents BackboneViews from nesting. Even if a view
    // renders a View, it only receives its events when it is instantiated.
    stopListening: function() {
        this.stopListening();
    },

    // **remove** is the final event you can trigger on a View.
    remove: function() {
        this.stopListening();
        this._removeElement();
        this.remove();
    },

    // Clear all callbacks previously bound to the view by `delegateEvents`.
    // You usually don't need to use this, but may wish to if you have multiple
    // Backbone views attached to the same DOM element.
    undelegateEvents: function() {
        if (this.$)
```

```html
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```
function(eventName, selector, listener) { this.$el.off(eventName + '.delegateEvents' + this.cid, selector, listener);
  return this;
},

// A finer-grained `undelegateEvents` for removing a single delegated event.
undelegate: function(eventName) { this.$el.off(eventName + '.delegateEvents' + this.cid, selector, listener);
  return this;
},

// Produces a DOM element to be assigned to your view. Exposed for
// subclasses using an alternative DOM manipulation API.
_createElement: function(tagName) { return document.createElement(tagName);
  },

// Ensure that the View has a DOM element to render into. If
// `this.el` is a string, pass it through `$(`) and create a matching
// element, and re-assign it to `el`. Otherwise, create an element
// from the `id`, `innerHTML` and `id` properties.
_element: function() { if (this.el) return this;
  var attrs = _.extend({}, _.result(this, 'attributes'));
  if (this.id) attrs.id = _.result(this, 'id');
  if (this.className) attrs['class'] = _.result(this, 'className');
  return this.createElement(_.result(this, 'tagName'));
},

// Set attributes from a hash on this view’s element. Exposed for
// subclasses using an alternative DOM manipulation API.
_setAttributes: function(attributes) {
  this.$el.attr(attributes);
},

// Set attributes from a hash on this view’s element. Exposed for
// subclasses using an alternative DOM manipulation API.
_setAttributes: function(attributes) {
  this.$el.attr(attributes);
},

// Ensure that the View has a DOM element to render into. If
// `this.el` is a string, pass it through `$(`) and create a matching
// element, and re-assign it to `el`. Otherwise, create an element
// from the `id`, `innerHTML` and `id` properties.
_element: function() { if (this.el) return this;
  var attrs = _.extend({}, _.result(this, 'attributes'));
  if (this.id) attrs.id = _.result(this, 'id');
  if (this.className) attrs['class'] = _.result(this, 'className');
  return this.createElement(_.result(this, 'tagName'));
},

// Ensure that the View has a DOM element to render into. If
// `this.el` is a string, pass it through `$(`) and create a matching
// element, and re-assign it to `el`. Otherwise, create an element
// from the `id`, `innerHTML` and `id` properties.
_element: function() { if (this.el) return this;
  var attrs = _.extend({}, _.result(this, 'attributes'));
  if (this.id) attrs.id = _.result(this, 'id');
  if (this.className) attrs['class'] = _.result(this, 'className');
  return this.createElement(_.result(this, 'tagName'));
},

// Override this function to change the manner in which Backbone persist
// models to the server. You will be passed the type of request, and the
// model in question. By default, makes a RESTful Ajax request to
// the model’s `url()`. Some possible customizations could be:
// * Use `setTimeout` to batch rapid-fire updates into a single request.
// * Send
// up the models as XML instead of JSON.
// * Persist models via WebSockets instead of Ajax.
// * Turn on
// `Backbone.emulateHTTP` in order to send `PUT` and `DELETE` requests as `POST`, with a `_method`
// parameter containing the true HTTP method.
// * as well as all requests with the body as `application/x-www-form-urlencoded`
// instead of `application/json` with the model in a param named `model`. Use when
// interfacing with server-side languages like **PHP** that make
// it difficult to read the body of `PUT` requests.
// * Default options, unless specified.
// * Persist models using WebSockets instead of Ajax.
// * Turn on
// `Backbone.emulateHTTP` in order to send `PUT` and `DELETE` requests as `POST`, with a `_method`
// parameter containing the true HTTP method.
// * as well as all requests with the body as `application/x-www-form-urlencoded`
// instead of `application/json` with the model in a param named `model`. Use when
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// `Backbone.emulateHTTP` in order to send `PUT` and `DELETE` requests as `POST`, with a `_method`
// parameter containing the true HTTP method.
// * as well as all requests with the body as `application/x-www-form-urlencoded`
// instead of `application/json` with the model in a param named `model`. Use when
// interfacing with server-side languages like **PHP** that make
// it difficult to read the body of `PUT` requests.
// * Default options, unless specified.
// * Persist models using WebSockets instead of Ajax.
decodeFragment: function(fragment) {

  return decodeURIComponent(fragment.replace(/%25/g, '%2525'));
}

// In IE6, the hash fragment and search params are incorrect if the
// fragment contains '?'.

getSearch: function() {

  var match = this.location.href.replace(/(#.*)$/,'').match(/\?.+/);

  return match ? match[0] : '';
}

// Gets the true hash value. Cannot use location.hash directly due to bug
// in Firefox where location.hash will always be decoded.

getPath: function() {

  var path = this.decodeFragment(this.location.pathname + this.getSearch());

  return path.slice(1); path;
}

// Normalize root to always include a leading and trailing slash.

getFragment: function(fragment) {

  if (fragment == null) {
    return fragment;
  } else {
    return fragment;
  }
}

// Start the hash change handling, returning 'true'
// if the current URL matches // an existing route, and 'false' otherwise.

getHash: function(window) {

  var match = this.location.href.replace(/#.*/, '').match(/\?.+/);

  return match ? match[0] : '';
}

// In

getHash: function(window) {

  var path = this.decodeFragment(this.location.pathname + this.getSearch());

  return path.slice(1); path;
}

// Normalize root to always include a leading and trailing slash.

getRootPath: function() {

  return ('/' + this.root + '/').replace(this.root, '/');
}

// Transition from

getHistory: function(history) {

  var path = history.pathname + history.search;

  return path;
}

// Return immediately as browser will do redirect to new url

// Or if we've started out with a hash-based route, but we're currently

// in a browser that doesn't support it...

// If we've started off with a route from a 'pushState'-enabled

// browser, but we're currently in a browser that doesn't support it...

// In a browser where it could be 'pushState'-based instead...

// Proxy an iframe to handle location events if the browser doesn't

// support the 'hashchange' event, HTML5 history, or the user wants

// 'hashChange' but not 'pushState'.

function(eventName, listener) {

  return attachEvent('on' + eventName, listener);
}

// Depending on whether we're using pushState or hashes, and whether

// 'onhashchange' is supported, determine how we check the URL state.

if (this._usePushState && this._wantsHashChange)

  this.navigate(this.getHash(), {replace: true});

else if (this._wantsHashChange && !this._usePushState)

  this.navigate('#' + this.getPath(), {replace: true});

// Add a cross-platform `addEventListener` shim for older browsers.

var addEventListener = window.addEventListener;

function(eventName, listener) {

  return attachEvent('on' + eventName, listener);
}

// Disable Backbone.history, perhaps temporarily. Not useful in a real app,
// but possibly useful for unit testing Routers.

stop: function() {

  var removeEventListener = window.removeEventListener;

  function(eventName, listener) {

    return detachEvent('on' + eventName, listener);
  }

  // Remove window listeners.

  if (this._usePushState) {
    removeEventListener('popstate', this.checkUrl, false);
  } else if (this._useHashChange && this._iframe) {
    removeEventListener('hashchange', this.checkUrl, false);
  }

  // Remove Backbone.history.

  History.started = false;

  return true;
}

// 'onhashchange' is supported, determine how we check the URL state.

if (this._useHashChange && !this._usePushState)

  addEventListener('hashchange', this.checkUrl, false);

else if (this._usePushState)

  addEventListener('popstate', this.checkUrl, false);

// 'onhashchange' is supported, determine how we check the URL state.

if (this._useHashChange && !this._usePushState)

  this._checkUrlInterval = setInterval(this.checkUrl, this.interval);

if (this._useHashChange && !this.iframe) {

  addEventListener('hashchange', this.checkUrl, false);
}

// 'onhashchange' is supported, determine how we check the URL state.

if (this._useHashChange && !this.iframe) {

  removeEventListener('hashchange', this.checkUrl, false);
}

// 'onhashchange' is supported, determine how we check the URL state.

if (this._useHashChange && !this.iframe) {

  removeEventListener('popstate', this.checkUrl, false);
}

// 'onhashchange' is supported, determine how we check the URL state.

if (this._useHashChange && !this.iframe) {

  removeEventListener('hashchange', this.checkUrl, false);

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Helper function to correctly set up the prototype chain for subclasses.

var parent = this;
var child;

The constructor function for the new subclass is either defined by you
or replaced by the `getFragment` function if supplied.

function(handler, function(callback) { return true; }());

function(fragment) { return this.getFragment(fragment); }

return updateHash(location, fragment, options.replace);
from `parent`, without calling
`parent`'s constructor function and add the prototype properties.

child.prototype = _create(parent.prototype, protoProps);  
child.prototype.constructor = child; 

// Set a convenience property in case the parent's prototype is needed; 
// later, in child._super = parent.prototype;

return child; 
}

// Wrap an optional error callback with a fallback error event.
var wrapError = 
function(model, options) {

var error = options.error;

options.error = function(resp) {

if (error) 
error.call(options.context, model, resp, options);

}

}

return Backbone;

};

// Set up inheritance for the model, collection, router, view and history.
Model.extend = 
Collection.extend = Router.extend = View.extend = extend;

// Throw an error when a URL is needed, and none is supplied.
var urlError = function() {

throw new Error('A "url" property or function must be specified');
}

// Set a convenience property in case the parent's prototype is needed;
// later, in child._super = parent.prototype;

child.prototype.constructor = child;

child.prototype = _.create(parent.prototype, protoProps);

child.prototype.constructor = child;

// Set a convenience property in case the parent's prototype is needed;
// later, in child._super = parent.prototype;

child.prototype = _.create(parent.prototype, protoProps);

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// Set a convenience property in case the parent's prototype is needed;
// later, in child._super = parent.prototype;

child.prototype = _.create(parent.prototype, protoProps);

child.prototype.constructor = child;
/**
 * Adds the same handler for all of the specified
 * attributes in the given document.
 * @param {htmlNode} node - The HTML node to add the handler to.
 * @param {String} attr - The attribute name.
 * @param {Function} handler - The function to run when the attribute is modified.
 * @returns {void}
 */
function addAttributes( node, attr, handler ) {
  // Loop through all attributes on the node.
  for ( var i = 0; i < 2; i++ ) {
    // Check if the attribute exists.
    if ( node.getAttribute ) {
      // If it exists, add the handler.
      node.setAttribute( attr, handler );
      node.removeAttribute( attr );
      node.setAttribute( attr, handler );
    } else {
      // If it doesn't exist, create it and add the handler.
      node.setAttribute( attr, handler );
    }
  }
}

/**
 * Checks document order of two siblings in the given document.
 * @param {htmlNode} node1 - The first sibling.
 * @param {htmlNode} node2 - The second sibling.
 * @returns {Number} The difference in index between the two nodes.
 */
function siblings( node1, node2 ) {
  // Get the current index of each sibling.
  var index1 = node1.index;
  var index2 = node2.index;

  // If the index is null, check the parent node.
  if ( index1 === null ) {
    index1 = node1.parentNode.index;
  }
  if ( index2 === null ) {
    index2 = node2.parentNode.index;
  }

  // Return the difference in index.
  return index1 - index2;
}

/**
 * Selects all elements in the given document that have a specific attribute.
 * @param {String} attr - The attribute name.
 * @returns {Array} An array of all elements in the document with the specified attribute.
 */
function getElementsByAttribute( attr ) {
  // Get the first element in the document with the specified attribute.
  var element = document.getElementsByTagName( attr ).item(0);

  // Loop through all elements in the document and return those with the specified attribute.
  return Array.prototype.slice.call( document.getElementsByTagName( attr ), 0, document.getElementsByTagName( attr ).length ).filter( function( element ) {
    return element.getAttribute( attr ) === true;
  } );
}

/**
 * Selects all elements in the given document that have a specific attribute.
 * @param {String} attr - The attribute name.
 * @returns {Array} An array of all elements in the document with the specified attribute.
 */
function getElementsByClassName( className ) {
  // Get the first element in the document with the specified class.
  var element = document.getElementsByClassName( className ).item(0);

  // Loop through all elements in the document and return those with the specified class.
  return Array.prototype.slice.call( document.getElementsByClassName( className ), 0, document.getElementsByClassName( className ).length ).filter( function( element ) {
    return element.className === className;
  } );
}

/**
 * Selects all elements in the given document that have a specific attribute.
 * @param {String} attr - The attribute name.
 * @returns {Array} An array of all elements in the document with the specified attribute.
 */
function getElementsByTagName( tagName ) {
  // Get the first element in the document with the specified tag name.
  var element = document.getElementsByTagName( tagName ).item(0);

  // Loop through all elements in the document and return those with the specified tag name.
  return Array.prototype.slice.call( document.getElementsByTagName( tagName ), 0, document.getElementsByTagName( tagName ).length ).filter( function( element ) {
    return element.tagName === tagName;
  } );
}
arguments as-is\n\t\t\tif ( match[3] ) {\n\t\t\t\tmatch[2] = match[4] || match[5] || \"\";\n\n\t\t\t// Strip excess characters
from unquoted arguments\n\t\t\t} else if ( unquoted && rpseudo.test( unquoted ) &&\n\t\t\t\t// Get excess from
tokenize (recursively)\n\t\t\t\t(excess = tokenize( unquoted, true )) &&\n\t\t\t\t// advance to the next closing
parenthesis\n\t\t\t\t(excess = unquoted.indexOf( \")\", unquoted.length - excess ) - unquoted.length) ) {\n\n\t\t\t\t//
excess is a negative index\n\t\t\t\tmatch[0] = match[0].slice( 0, excess );\n\t\t\t\tmatch[2] = unquoted.slice( 0, excess
);\n\t\t\t}\n\n\t\t\t// Return only captures needed by the pseudo filter method (type and argument)\n\t\t\treturn
match.slice( 0, 3 );\n\t\t}\n\t},\n\n\tfilter: {\n\n\t\t\"TAG\": function( nodeNameSelector ) {\n\t\t\tvar nodeName =
nodeNameSelector.replace( runescape, funescape ).toLowerCase();\n\t\t\treturn nodeNameSelector === \"*\"
?\n\t\t\t\tfunction() { return true; } :\n\t\t\t\tfunction( elem ) {\n\t\t\t\t\treturn elem.nodeName &&
elem.nodeName.toLowerCase() === nodeName;\n\t\t\t\t};\n\t\t},\n\n\t\t\"CLASS\": function( className )
{\n\t\t\tvar pattern = classCache[ className + \" \" ];\n\n\t\t\treturn pattern ||\n\t\t\t\t(pattern = new RegExp( \"(^|\" +
whitespace + \")\" + className + \"(\" + whitespace + \"|$)\" )) &&\n\t\t\t\tclassCache( className, function( elem )
{\n\t\t\t\t\treturn pattern.test( typeof elem.className === \"string\" && elem.className || typeof elem.getAttribute
!== \"undefined\" && elem.getAttribute(\"class\") || \"\" );\n\t\t\t\t});\n\t\t},\n\n\t\t\"ATTR\": function( name,
operator, check ) {\n\t\t\treturn function( elem ) {\n\t\t\t\tvar result = Sizzle.attr( elem, name );\n\n\t\t\t\tif ( result ==
null ) {\n\t\t\t\t\treturn operator === \"!=\";\n\t\t\t\t}\n\t\t\t\tif ( !operator ) {\n\t\t\t\t\treturn
true;\n\t\t\t\t}\n\n\t\t\t\tresult += \"\";\n\n\t\t\t\treturn operator === \"=\" ? result === check :\n\t\t\t\t\toperator ===
\"!=\" ? result !== check :\n\t\t\t\t\toperator === \"^=\" ? check && result.indexOf( check ) === 0 :\n\t\t\t\t\toperator
=== \"*=\" ? check && result.indexOf( check ) > -1 :\n\t\t\t\t\toperator === \"$=\" ? check && result.slice( check.length ) === check :\n\t\t\t\t\toperator === \"~=\" ? ( \" \" + result.replace( rwhitespace, \" \" ) + \" \"
).indexOf( check ) > -1 :\n\t\t\t\t\toperator === \"|=\" ? result === check || result.slice( 0, check.length + 1 ) ===
check + \"-\" :\n\t\t\t\t\tfalse;\n\t\t\t};\n\t\t},\n\n\t\t\"CHILD\": function( type, what, argument, first, last ) {\n\t\t\tvar
simple = type.slice( 0, 3 ) !== \"nth\",\n\t\t\t\tforward = type.slice( -4 ) !== \"last\",\n\t\t\t\tofType = what === \"oftype\";\n\n\t\t\treturn first === 1 && last === 0 ?\n\n\t\t\t\t// Shortcut for :nth-*(n)\n\t\t\t\tfunction( elem )
{\n\t\t\t\t\treturn !!elem.parentNode;\n\t\t\t\t} :\n\n\t\t\t\tfunction( elem, context, xml ) {\n\t\t\t\t\tvar cache,
uniqueCache, outerCache, node, nodeIndex, start,\n\t\t\t\t\t\tdir = simple !== forward ? \"nextSibling\" :
\"previousSibling\",\n\t\t\t\t\t\tparent = elem.parentNode,\n\t\t\t\t\t\tname = ofType &&
elem.nodeName.toLowerCase(),\n\t\t\t\t\t\tuseCache = !xml && !ofType,\n\t\t\t\t\t\tdiff = false;\n\n\t\t\t\t\tif ( parent
) {\n\n\t\t\t\t\t\t// :(first|last|only)-(child|of-type)\n\t\t\t\t\t\tif ( simple ) {\n\t\t\t\t\t\t\twhile ( dir ) {\n\t\t\t\t\t\t\t\tnode =
elem;\n\t\t\t\t\t\t\t\twhile ( (node = node[ dir ]) ) {\n\t\t\t\t\t\t\t\t\tif ( ofType
?\n\t\t\t\t\t\t\t\t\t\tnode.nodeName.toLowerCase() === name :\n\t\t\t\t\t\t\t\t\t\tnode.nodeType === 1 )
{\n\n\t\t\t\t\t\t\t\t\t\treturn false;\n\t\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\t// Reverse direction for :only-* (if we
haven't yet done so)\n\t\t\t\t\t\t\t\tstart = dir = type === \"only\" && !start &&
\"nextSibling\";\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\treturn true;\n\t\t\t\t\t\t}\n\n\t\t\t\t\t\tstart = [ forward ? parent.firstChild :
parent.lastChild ];\n\n\t\t\t\t\t\t// non-xml :nth-child(...) stores cache data on `parent`\n\t\t\t\t\t\tif ( forward &&
useCache ) {\n\n\t\t\t\t\t\t\t// Seek `elem` from a previously-cached index\n\n\t\t\t\t\t\t\t// ...in a gzip-friendly
way\n\t\t\t\t\t\t\tnode = parent;\n\t\t\t\t\t\t\touterCache = node[ expando ] || (node[ expando ] = {});\n\n\t\t\t\t\t\t\t//
Support: IE <9 only\n\t\t\t\t\t\t\t// Defend against cloned attroperties (jQuery gh-1709)\n\t\t\t\t\t\t\tuniqueCache =
outerCache[ node.uniqueID ] ||\n\t\t\t\t\t\t\t\t(outerCache[ node.uniqueID ] = {});\n\n\t\t\t\t\t\t\tcache = uniqueCache[
type ] || [];\n\t\t\t\t\t\t\tnodeIndex = cache[ 0 ] === dirruns && cache[ 1 ];\n\t\t\t\t\t\t\tdiff = nodeIndex && cache[ 2
];\n\t\t\t\t\t\t\tnode = nodeIndex && parent.childNodes[ nodeIndex ];\n\n\t\t\t\t\t\t\twhile ( (node = ++nodeIndex &&
node && node[ dir ] ||\n\n\t\t\t\t\t\t\t\t// Fallback to seeking `elem` from the start\n\t\t\t\t\t\t\t\t(diff = nodeIndex = 0) ||
start.pop()) ) {\n\n\t\t\t\t\t\t\t\t// When found, cache indexes on `parent` and break\n\t\t\t\t\t\t\t\tif ( node.nodeType
=== 1 && ++diff && node === elem ) {\n\t\t\t\t\t\t\t\t\tuniqueCache[ type ] = [ dirruns, nodeIndex, diff
];\n\t\t\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\t// Use previously-cached element
index if available\n\t\t\t\t\t\t\tif ( useCache ) {\n\t\t\t\t\t\t\t\t// ...in a gzip-friendly way\n\t\t\t\t\t\t\t\tnode =
elem;\n\t\t\t\t\t\t\t\touterCache = node[ expando ] || (node[ expando ] = {});\n\n\t\t\t\t\t\t\t\t// Support: IE <9
only\n\t\t\t\t\t\t\t\t// Defend against cloned attroperties (jQuery gh-1709)\n\t\t\t\t\t\t\t\tuniqueCache = outerCache[

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```javascript
elemLang.toLowerCase();

if (elemLang === lang || elemLang.indexOf(lang + "-")) {
  elemLang = elem.getAttribute("xml:lang") || elem.getAttribute("lang") ||
  (elemLang = documentIsHTML ?
    elem.lang
  );
}

lang = lang.replace(runescape, funescape).toLowerCase();

return function(elem) {
  var
    must be a valid identifier
  if ( !ridentifier.test(lang || "")) {
    Sizzle.error("unsupported lang: " + lang
  // lang value must be a valid identifier
  if ( !identifier.test(lang || "")) {
    return false
  }

  return function( lang ) {
    // Remember that custom pseudos are added with uppercase letters
    // Incorporate the offset, then check against cycle size
    return diff - last;
  }

  return ( elem.textContent || elem.innerText || getText(elem) ).indexOf(text)
}

```

http://www.w3.org/TR/selectors/#pseudo

Incorporate the offset, then check against cycle size.

Prioritize by case sensitivity in case custom pseudos are added with uppercase letters.
Remember that setFilters inherits from pseudos:

```javascript
 Expr.setFilters( pseudo.toLowerCase() ||
  Sizzle.error( "unsupported pseudo: " + pseudo );

// The user may use createPseudo to indicate that arguments are needed to create the filter function:
  return just as Sizzle
  does( fn, expanded )
  But maintain support for old
  signatures

// But maintain support for old
```

```javascript
Expr.setFilters(hasOwnProperty( pseudo.toLowerCase() || Expr.setFilters[ pseudo.toLowerCase() ] || Expr.pseudos[" PSEUDO: function( pseudo, argument )

// But maintain support for old
```

```javascript
Expr.setFilters(hasOwnProperty( pseudo.toLowerCase() || Expr.setFilters[ pseudo.toLowerCase() ] || Expr.pseudos[" PSEUDO: function( pseudo, argument )

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Expr.setFilters(hasOwnProperty( pseudo.toLowerCase() || Expr.setFilters[ pseudo.toLowerCase() ] || Expr.pseudos[" PSEUDO: function( pseudo, argument )

```

```javascript
Descendants of the first matched element
```
Un-match failing elements by moving them back to matcherIn

```javascript
if ( bySet ) {
  // They will have gone through all possible matchers
  if ( (elem = outermost ) {
    dirruns = dirrunsUnique;
  }
}
```

```javascript
// Track unmatched elements for set
context || document, xml) ) {
  results.push( elem );
  break;
}
```

```javascript
if ( !documentIsHTML;
```
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if we're done with it
if we're done firing for good
Clean up if we're done firing for good
Keep an empty list if we have data for future
add calls
Otherwise, this object is spent
else
Actual Callbacks object itself = self
Add a callback or a
collection of callbacks to the list
this
Remove a callback from the list

// promise[ done | fail | progress ] =
// Add promise to the list
// If we have memory from a past
run, we should fire after adding
memQty & ! firing

// promise[ done | fail | progress ] =
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memQty & ! firing

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memQty & ! firing
waitFor: function( subordinate /*, ..., subordinateN */ ) {
  var i = 0,
  resolveValues = slice.call( arguments ),
  length = resolveValues.length,
  progressContexts, resolveContexts;

  // Add listeners to Deferred subordinates; treat others as resolved

  if (length > 1) {
    // If resolveValues consist of only a single Deferred, just use that.
    deferred.deferred.resolveWith( contexts, values );
    return deferred;
  }

  readyList.promise( obj );
}

// Kick off the DOM ready check even if the user doesn't
window.onload, that will always work
			window.addEventListener( "load", completed );

	jetty...
{\n\tvar i = 0,\n\t\tlen = elems.length,\n\t\tbulk = key == null;\n\n\t// Sets many values\n\tif ( jQuery.type( key ) ===
\"object\" ) {\n\t\tchainable = true;\n\t\tfor ( i in key ) {\n\t\t\taccess( elems, fn, i, key[ i ], true, emptyGet, raw
);\n\t\t}\n\n\t// Sets one value\n\t} else if ( value !== undefined ) {\n\t\tchainable = true;\n\n\t\tif (
!jQuery.isFunction( value ) ) {\n\t\t\traw = true;\n\t\t}\n\n\t\tif ( bulk ) {\n\n\t\t\t// Bulk operations run against the
entire set\n\t\t\tif ( raw ) {\n\t\t\t\tfn.call( elems, value );\n\t\t\t\tfn = null;\n\n\t\t\t// ...except when executing function
values\n\t\t\t} else {\n\t\t\t\tbulk = fn;\n\t\t\t\tfn = function( elem, key, value ) {\n\t\t\t\t\treturn bulk.call( jQuery(
elem ), value );\n\t\t\t\t};\n\t\t\t}\n\t\t}\n\n\t\tif ( fn ) {\n\t\t\tfor ( ; i < len; i++ ) {\n\t\t\t\tfn(\n\t\t\t\t\telems[ i ], key,
raw ?\n\t\t\t\t\tvalue :\n\t\t\t\t\tvalue.call( elems[ i ], i, fn( elems[ i ], key ) )\n\t\t\t\t);\n\t\t\t}\n\t\t}\n\t}\n\n\treturn
chainable ?\n\t\telems :\n\n\t\t// Gets\n\t\tbulk ?\n\t\t\tfn.call( elems ) :\n\t\t\tlen ? fn( elems[ 0 ], key ) :
emptyGet;\n};\nvar acceptData = function( owner ) {\n\n\t// Accepts only:\n\t// - Node\n\t// Node.ELEMENT_NODE\n\t// - Node.DOCUMENT_NODE\n\t// - Object\n\t// - Any\n\t/* jshint -W018
*/\n\treturn owner.nodeType === 1 || owner.nodeType === 9 || !( +owner.nodeType );\n};\n\n\n\n\nfunction Data()
{\n\tthis.expando = jQuery.expando + Data.uid++;\n}\n\nData.uid = 1;\n\nData.prototype = {\n\n\tregister: function(
owner, initial ) {\n\t\tvar value = initial || {};\n\n\t\t// If it is a node unlikely to be stringify-ed or looped over\n\t\t//
use plain assignment\n\t\tif ( owner.nodeType ) {\n\t\t\towner[ this.expando ] = value;\n\n\t\t// Otherwise secure it in
a non-enumerable, non-writable property\n\t\t// configurability must be true to allow the property to be\n\t\t// deleted
with the delete operator\n\t\t} else {\n\t\t\tObject.defineProperty( owner, this.expando, {\n\t\t\t\tvalue:
value,\n\t\t\t\twritable: true,\n\t\t\t\tconfigurable: true\n\t\t\t} );\n\t\t}\n\t\treturn owner[ this.expando
];\n\t},\n\tcache: function( owner ) {\n\n\t\t// We can accept data for non-element nodes in modern browsers,\n\t\t//
but we should not, see #8335.\n\t\t// Always return an empty object.\n\t\tif ( !acceptData( owner ) ) {\n\t\t\treturn
{};\n\t\t}\n\n\t\t// Check if the owner object already has a cache\n\t\tvar value = owner[ this.expando ];\n\n\t\t// If
not, create one\n\t\tif ( !value ) {\n\t\t\tvalue = {};\n\n\t\t\t// We can accept data for non-element nodes in modern
browsers,\n\t\t\t// but we should not, see #8335.\n\t\t\t// Always return an empty object.\n\t\t\tif ( acceptData( owner
) ) {\n\n\t\t\t\t// If it is a node unlikely to be stringify-ed or looped over\n\t\t\t\t// use plain assignment\n\t\t\t\tif (
owner.nodeType ) {\n\t\t\t\t\towner[ this.expando ] = value;\n\n\t\t\t\t// Otherwise secure it in a non-enumerable
property\n\t\t\t\t// configurable must be true to allow the property to be\n\t\t\t\t// deleted when data is
removed\n\t\t\t\t} else {\n\t\t\t\t\tObject.defineProperty( owner, this.expando, {\n\t\t\t\t\t\tvalue:
value,\n\t\t\t\t\t\tconfigurable: true\n\t\t\t\t\t} );\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\n\t\treturn value;\n\t},\n\tset: function( owner,
data, value ) {\n\t\tvar prop,\n\t\t\tcache = this.cache( owner );\n\n\t\t// Handle: [ owner, key, value ] args\n\t\tif (
typeof data === \"string\" ) {\n\t\t\tcache[ data ] = value;\n\n\t\t// Handle: [ owner, { properties } ] args\n\t\t} else
{\n\n\t\t\t// Copy the properties one-by-one to the cache object\n\t\t\tfor ( prop in data ) {\n\t\t\t\tcache[ prop ] = data[
prop ];\n\t\t\t}\n\t\t}\n\t\treturn cache;\n\t},\n\tget: function( owner, key ) {\n\t\treturn key === undefined
?\n\t\t\tthis.cache( owner ) :\n\t\t\towner[ this.expando ] && owner[ this.expando ][ key ];\n\t},\n\taccess: function(
owner, key, value ) {\n\t\tvar stored;\n\n\t\t// In cases where either:\n\t\t//\n\t\t// 1. No key was specified\n\t\t// 2.
A string key was specified, but no value provided\n\t\t//\n\t\t// Take the \"read\" path and allow the get method to
determine\n\t\t// which value to return, respectively either:\n\t\t//\n\t\t// 1. The entire cache object\n\t\t// 2. The
data stored at the key\n\t\t//\n\t\tif ( key === undefined ||\n\t\t\t\t( ( key && typeof key === \"string\" ) && value
=== undefined ) ) {\n\n\t\t\tstored = this.get( owner, key );\n\n\t\t\treturn stored !== undefined ?\n\t\t\t\tstored :
this.get( owner, jQuery.camelCase( key ) );\n\t\t}\n\n\t\t// When the key is not a string, or both a key and value\n\t\t//
are specified, set or extend (existing objects) with either:\n\t\t//\n\t\t// 1. An object of properties\n\t\t// 2. A key
and value\n\t\t//\n\t\tthis.set( owner, key, value );\n\n\t\t// Since the \"set\" path can have two possible entry
points\n\t\t// return the expected data based on which path was taken[*]\n\t\treturn value !== undefined ? value :
key;\n\t},\n\tremove: function( owner, key ) {\n\t\tvar i, name, camel,\n\t\t\tcache = owner[ this.expando ];\n\n\t\tif (
cache === undefined ) {\n\t\t\treturn;\n\t\t}\n\n\t\tif ( key === undefined ) {\n\t\t\tthis.register( owner );\n\n\t\t} else
{\n\n\t\t\t// Support array or space separated string of keys\n\t\t\tif ( jQuery.isArray( key ) ) {\n\n\t\t\t\t// If \"name\"
is an array of keys...\n\t\t\t\t// When data is initially created, via (\"key\", \"val\") signature,\n\t\t\t\t// keys will be
converted to camelCase.\n\t\t\t\t// Since there is no way to tell _how_ a key was added, remove\n\t\t\t\t// both plain
key and camelCase key. #12786\n\t\t\t\t// This will only penalize the array argument path.\n\t\t\t\tname =

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key.concat( key.map( jQuery.camelCase ) );\n\t\t\t} else {\n\t\t\t\tcamel = jQuery.camelCase( key );\n\n\t\t\t\t// Try
the string as a key before any manipulation\n\t\t\t\tif ( key in cache ) {\n\t\t\t\t\tname = [ key, camel ];\n\t\t\t\t} else
{\n\n\t\t\t\t\t// If a key with the spaces exists, use it.\n\t\t\t\t\t// Otherwise, create an array by matching nonwhitespace\n\t\t\t\t\tname = camel;\n\t\t\t\t\tname = name in cache ?\n\t\t\t\t\t\t[ name ] : ( name.match( rnotwhite ) ||
[] );\n\t\t\t\t}\n\t\t\t}\n\n\t\t\ti = name.length;\n\n\t\t\twhile ( i-- ) {\n\t\t\t\tdelete cache[ name[ i ]
];\n\t\t\t}\n\t\t}\n\n\t\t// Remove the expando if there's no more data\n\t\tif ( key === undefined ||
jQuery.isEmptyObject( cache ) ) {\n\n\t\t\t// Support: Chrome <= 35-45+\n\t\t\t// Webkit & Blink performance
suffers when deleting properties\n\t\t\t// from DOM nodes, so set to undefined instead\n\t\t\t//
https://code.google.com/p/chromium/issues/detail?id=378607\n\t\t\tif ( owner.nodeType ) {\n\t\t\t\towner[
this.expando ] = undefined;\n\t\t\t} else {\n\t\t\t\tdelete owner[ this.expando ];\n\t\t\t}\n\t\t}\n\t},\n\thasData:
function( owner ) {\n\t\tvar cache = owner[ this.expando ];\n\t\treturn cache !== undefined &&
!jQuery.isEmptyObject( cache );\n\t}\n};\nvar dataPriv = new Data();\n\nvar dataUser = new
Data();\n\n\n\n//\tImplementation Summary\n//\n//\t1. Enforce API surface and semantic compatibility with 1.9.x
branch\n//\t2. Improve the module's maintainability by reducing the storage\n//\t\tpaths to a single
mechanism.\n//\t3. Use the same single mechanism to support \"private\" and \"user\" data.\n//\t4. _Never_ expose
\"private\" data to user code (TODO: Drop _data, _removeData)\n//\t5. Avoid exposing implementation details on
user objects (eg. expando properties)\n//\t6. Provide a clear path for implementation upgrade to WeakMap in
2014\n\nvar rbrace = /^(?:\\{[\\w\\W]*\\}|\\[[\\w\\W]*\\])$/,\n\trmultiDash = /[A-Z]/g;\n\nfunction dataAttr( elem,
key, data ) {\n\tvar name;\n\n\t// If nothing was found internally, try to fetch any\n\t// data from the HTML5 data-*
attribute\n\tif ( data === undefined && elem.nodeType === 1 ) {\n\t\tname = \"data-\" + key.replace( rmultiDash,
\"-$&\" ).toLowerCase();\n\t\tdata = elem.getAttribute( name );\n\n\t\tif ( typeof data === \"string\" ) {\n\t\t\ttry
{\n\t\t\t\tdata = data === \"true\" ? true :\n\t\t\t\t\tdata === \"false\" ? false :\n\t\t\t\t\tdata === \"null\" ? null
:\n\n\t\t\t\t\t// Only convert to a number if it doesn't change the string\n\t\t\t\t\t+data + \"\" === data ? +data
:\n\t\t\t\t\trbrace.test( data ) ? jQuery.parseJSON( data ) :\n\t\t\t\t\tdata;\n\t\t\t} catch ( e ) {}\n\n\t\t\t// Make sure we
set the data so it isn't changed later\n\t\t\tdataUser.set( elem, key, data );\n\t\t} else {\n\t\t\tdata =
undefined;\n\t\t}\n\t}\n\treturn data;\n}\n\njQuery.extend( {\n\thasData: function( elem ) {\n\t\treturn
dataUser.hasData( elem ) || dataPriv.hasData( elem );\n\t},\n\n\tdata: function( elem, name, data ) {\n\t\treturn
dataUser.access( elem, name, data );\n\t},\n\n\tremoveData: function( elem, name ) {\n\t\tdataUser.remove( elem,
name );\n\t},\n\n\t// TODO: Now that all calls to _data and _removeData have been replaced\n\t// with direct calls to
dataPriv methods, these can be deprecated.\n\t_data: function( elem, name, data ) {\n\t\treturn dataPriv.access( elem,
name, data );\n\t},\n\n\t_removeData: function( elem, name ) {\n\t\tdataPriv.remove( elem, name );\n\t}\n}
);\n\njQuery.fn.extend( {\n\tdata: function( key, value ) {\n\t\tvar i, name, data,\n\t\t\telem = this[ 0 ],\n\t\t\tattrs =
elem && elem.attributes;\n\n\t\t// Gets all values\n\t\tif ( key === undefined ) {\n\t\t\tif ( this.length ) {\n\t\t\t\tdata =
dataUser.get( elem );\n\n\t\t\t\tif ( elem.nodeType === 1 && !dataPriv.get( elem, \"hasDataAttrs\" ) ) {\n\t\t\t\t\ti =
attrs.length;\n\t\t\t\t\twhile ( i-- ) {\n\n\t\t\t\t\t\t// Support: IE11+\n\t\t\t\t\t\t// The attrs elements can be null
(#14894)\n\t\t\t\t\t\tif ( attrs[ i ] ) {\n\t\t\t\t\t\t\tname = attrs[ i ].name;\n\t\t\t\t\t\t\tif ( name.indexOf( \"data-\" ) === 0
) {\n\t\t\t\t\t\t\t\tname = jQuery.camelCase( name.slice( 5 ) );\n\t\t\t\t\t\t\t\tdataAttr( elem, name, data[ name ]
);\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t\tdataPriv.set( elem, \"hasDataAttrs\", true
);\n\t\t\t\t}\n\t\t\t}\n\n\t\t\treturn data;\n\t\t}\n\n\t\t// Sets multiple values\n\t\tif ( typeof key === \"object\" )
{\n\t\t\treturn this.each( function() {\n\t\t\t\tdataUser.set( this, key );\n\t\t\t} );\n\t\t}\n\n\t\treturn access( this,
function( value ) {\n\t\t\tvar data, camelKey;\n\n\t\t\t// The calling jQuery object (element matches) is not
empty\n\t\t\t// (and therefore has an element appears at this[ 0 ]) and the\n\t\t\t// `value` parameter was not
undefined. An empty jQuery object\n\t\t\t// will result in `undefined` for elem = this[ 0 ] which will\n\t\t\t// throw an
exception if an attempt to read a data cache is made.\n\t\t\tif ( elem && value === undefined ) {\n\n\t\t\t\t// Attempt
to get data from the cache\n\t\t\t\t// with the key as-is\n\t\t\t\tdata = dataUser.get( elem, key ) ||\n\n\t\t\t\t\t// Try to
find dashed key if it exists (gh-2779)\n\t\t\t\t\t// This is for 2.2.x only\n\t\t\t\t\tdataUser.get( elem, key.replace(
rmultiDash, \"-$&\" ).toLowerCase() );\n\n\t\t\t\tif ( data !== undefined ) {\n\t\t\t\t\treturn
data;\n\t\t\t\t}\n\n\t\t\t\tcamelKey = jQuery.camelCase( key );\n\n\t\t\t\t// Attempt to get data from the cache\n\t\t\t\t//

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valueParts && valueParts[ 3 ] || ( jQuery.cssNumber[ prop ] ? \"\" : \"px\" ),\n\n\t\t// Starting value computation is
required for potential unit mismatches\n\t\tinitialInUnit = ( jQuery.cssNumber[ prop ] || unit !== \"px\" && +initial )
&&\n\t\t\trcssNum.exec( jQuery.css( elem, prop ) );\n\n\tif ( initialInUnit && initialInUnit[ 3 ] !== unit ) {\n\n\t\t//
Trust units reported by jQuery.css\n\t\tunit = unit || initialInUnit[ 3 ];\n\n\t\t// Make sure we update the tween
properties later on\n\t\tvalueParts = valueParts || [];\n\n\t\t// Iteratively approximate from a nonzero starting
point\n\t\tinitialInUnit = +initial || 1;\n\n\t\tdo {\n\n\t\t\t// If previous iteration zeroed out, double until we get
*something*.\n\t\t\t// Use string for doubling so we don't accidentally see scale as unchanged below\n\t\t\tscale =
scale || \".5\";\n\n\t\t\t// Adjust and apply\n\t\t\tinitialInUnit = initialInUnit / scale;\n\t\t\tjQuery.style( elem, prop,
initialInUnit + unit );\n\n\t\t// Update scale, tolerating zero or NaN from tween.cur()\n\t\t// Break the loop if scale is
unchanged or perfect, or if we've just had enough.\n\t\t} while (\n\t\t\tscale !== ( scale = currentValue() / initial )
&& scale !== 1 && --maxIterations\n\t\t);\n\t}\n\n\tif ( valueParts ) {\n\t\tinitialInUnit = +initialInUnit || +initial ||
0;\n\n\t\t// Apply relative offset (+=/-=) if specified\n\t\tadjusted = valueParts[ 1 ] ?\n\t\t\tinitialInUnit + (
valueParts[ 1 ] + 1 ) * valueParts[ 2 ] :\n\t\t\t+valueParts[ 2 ];\n\t\tif ( tween ) {\n\t\t\ttween.unit =
unit;\n\t\t\ttween.start = initialInUnit;\n\t\t\ttween.end = adjusted;\n\t\t}\n\t}\n\treturn adjusted;\n}\nvar
rcheckableType = ( /^(?:checkbox|radio)$/i );\n\nvar rtagName = ( /<([\\w:-]+)/ );\n\nvar rscriptType = (
/^$|\\/(?:java|ecma)script/i );\n\n\n\n// We have to close these tags to support XHTML (#13200)\nvar wrapMap =
{\n\n\t// Support: IE9\n\toption: [ 1, \"<select multiple='multiple'>\", \"</select>\" ],\n\n\t// XHTML parsers do not
magically insert elements in the\n\t// same way that tag soup parsers do. So we cannot shorten\n\t// this by omitting
<tbody> or other required elements.\n\tthead: [ 1, \"<table>\", \"</table>\" ],\n\tcol: [ 2, \"<table><colgroup>\",
\"</colgroup></table>\" ],\n\ttr: [ 2, \"<table><tbody>\", \"</tbody></table>\" ],\n\ttd: [ 3, \"<table><tbody><tr>\",
\"</tr></tbody></table>\" ],\n\n\t_default: [ 0, \"\", \"\" ]\n};\n\n// Support: IE9\nwrapMap.optgroup =
wrapMap.option;\n\nwrapMap.tbody = wrapMap.tfoot = wrapMap.colgroup = wrapMap.caption =
wrapMap.thead;\nwrapMap.th = wrapMap.td;\n\n\nfunction getAll( context, tag ) {\n\n\t// Support: IE9-11+\n\t//
Use typeof to avoid zero-argument method invocation on host objects (#15151)\n\tvar ret = typeof
context.getElementsByTagName !== \"undefined\" ?\n\t\t\tcontext.getElementsByTagName( tag || \"*\" )
:\n\t\t\ttypeof context.querySelectorAll !== \"undefined\" ?\n\t\t\t\tcontext.querySelectorAll( tag || \"*\" )
:\n\t\t\t[];\n\n\treturn tag === undefined || tag && jQuery.nodeName( context, tag ) ?\n\t\tjQuery.merge( [ context ],
ret ) :\n\t\tret;\n}\n\n\n// Mark scripts as having already been evaluated\nfunction setGlobalEval( elems, refElements
) {\n\tvar i = 0,\n\t\tl = elems.length;\n\n\tfor ( ; i < l; i++ ) {\n\t\tdataPriv.set(\n\t\t\telems[ i
],\n\t\t\t\"globalEval\",\n\t\t\t!refElements || dataPriv.get( refElements[ i ], \"globalEval\" )\n\t\t);\n\t}\n}\n\n\nvar
rhtml = /<|&#?\\w+;/;\n\nfunction buildFragment( elems, context, scripts, selection, ignored ) {\n\tvar elem, tmp,
tag, wrap, contains, j,\n\t\tfragment = context.createDocumentFragment(),\n\t\tnodes = [],\n\t\ti = 0,\n\t\tl =
elems.length;\n\n\tfor ( ; i < l; i++ ) {\n\t\telem = elems[ i ];\n\n\t\tif ( elem || elem === 0 ) {\n\n\t\t\t// Add nodes
directly\n\t\t\tif ( jQuery.type( elem ) === \"object\" ) {\n\n\t\t\t\t// Support: Android<4.1, PhantomJS<2\n\t\t\t\t//
push.apply(_, arraylike) throws on ancient WebKit\n\t\t\t\tjQuery.merge( nodes, elem.nodeType ? [ elem ] : elem
);\n\n\t\t\t// Convert non-html into a text node\n\t\t\t} else if ( !rhtml.test( elem ) ) {\n\t\t\t\tnodes.push(
context.createTextNode( elem ) );\n\n\t\t\t// Convert html into DOM nodes\n\t\t\t} else {\n\t\t\t\ttmp = tmp ||
fragment.appendChild( context.createElement( \"div\" ) );\n\n\t\t\t\t// Deserialize a standard representation\n\t\t\t\ttag
= ( rtagName.exec( elem ) || [ \"\", \"\" ] )[ 1 ].toLowerCase();\n\t\t\t\twrap = wrapMap[ tag ] ||
wrapMap._default;\n\t\t\t\ttmp.innerHTML = wrap[ 1 ] + jQuery.htmlPrefilter( elem ) + wrap[ 2 ];\n\n\t\t\t\t//
Descend through wrappers to the right content\n\t\t\t\tj = wrap[ 0 ];\n\t\t\t\twhile ( j-- ) {\n\t\t\t\t\ttmp =
tmp.lastChild;\n\t\t\t\t}\n\n\t\t\t\t// Support: Android<4.1, PhantomJS<2\n\t\t\t\t// push.apply(_, arraylike) throws on
ancient WebKit\n\t\t\t\tjQuery.merge( nodes, tmp.childNodes );\n\n\t\t\t\t// Remember the top-level
container\n\t\t\t\ttmp = fragment.firstChild;\n\n\t\t\t\t// Ensure the created nodes are orphaned
(#12392)\n\t\t\t\ttmp.textContent = \"\";\n\t\t\t}\n\t\t}\n\t}\n\n\t// Remove wrapper from
fragment\n\tfragment.textContent = \"\";\n\n\ti = 0;\n\twhile ( ( elem = nodes[ i++ ] ) ) {\n\n\t\t// Skip elements
already in the context collection (trac-4087)\n\t\tif ( selection && jQuery.inArray( elem, selection ) > -1 ) {\n\t\t\tif (
ignored ) {\n\t\t\t\tignored.push( elem );\n\t\t\t}\n\t\t\tcontinue;\n\t\t}\n\n\t\tcontains = jQuery.contains(

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special based on newly reset type\n\t\t\tspecial = jQuery.event.special[ type ] || {};\n\n\t\t\t// handleObj is passed to
all event handlers\n\t\t\thandleObj = jQuery.extend( {\n\t\t\t\ttype: type,\n\t\t\t\torigType: origType,\n\t\t\t\tdata:
data,\n\t\t\t\thandler: handler,\n\t\t\t\tguid: handler.guid,\n\t\t\t\tselector: selector,\n\t\t\t\tneedsContext: selector &&
jQuery.expr.match.needsContext.test( selector ),\n\t\t\t\tnamespace: namespaces.join( \".\" )\n\t\t\t}, handleObjIn
);\n\n\t\t\t// Init the event handler queue if we're the first\n\t\t\tif ( !( handlers = events[ type ] ) ) {\n\t\t\t\thandlers =
events[ type ] = [];\n\t\t\t\thandlers.delegateCount = 0;\n\n\t\t\t\t// Only use addEventListener if the special events
handler returns false\n\t\t\t\tif ( !special.setup ||\n\t\t\t\t\tspecial.setup.call( elem, data, namespaces, eventHandle )
=== false ) {\n\n\t\t\t\t\tif ( elem.addEventListener ) {\n\t\t\t\t\t\telem.addEventListener( type, eventHandle
);\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\n\t\t\tif ( special.add ) {\n\t\t\t\tspecial.add.call( elem, handleObj );\n\n\t\t\t\tif (
!handleObj.handler.guid ) {\n\t\t\t\t\thandleObj.handler.guid = handler.guid;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Add to the
element's handler list, delegates in front\n\t\t\tif ( selector ) {\n\t\t\t\thandlers.splice( handlers.delegateCount++, 0,
handleObj );\n\t\t\t} else {\n\t\t\t\thandlers.push( handleObj );\n\t\t\t}\n\n\t\t\t// Keep track of which events have ever
been used, for event optimization\n\t\t\tjQuery.event.global[ type ] = true;\n\t\t}\n\n\t},\n\n\t// Detach an event or set
of events from an element\n\tremove: function( elem, types, handler, selector, mappedTypes ) {\n\n\t\tvar j,
origCount, tmp,\n\t\t\tevents, t, handleObj,\n\t\t\tspecial, handlers, type, namespaces, origType,\n\t\t\telemData =
dataPriv.hasData( elem ) && dataPriv.get( elem );\n\n\t\tif ( !elemData || !( events = elemData.events ) )
{\n\t\t\treturn;\n\t\t}\n\n\t\t// Once for each type.namespace in types; type may be omitted\n\t\ttypes = ( types || \"\"
).match( rnotwhite ) || [ \"\" ];\n\t\tt = types.length;\n\t\twhile ( t-- ) {\n\t\t\ttmp = rtypenamespace.exec( types[ t ] ) ||
[];\n\t\t\ttype = origType = tmp[ 1 ];\n\t\t\tnamespaces = ( tmp[ 2 ] || \"\" ).split( \".\" ).sort();\n\n\t\t\t// Unbind all
events (on this namespace, if provided) for the element\n\t\t\tif ( !type ) {\n\t\t\t\tfor ( type in events )
{\n\t\t\t\t\tjQuery.event.remove( elem, type + types[ t ], handler, selector, true
);\n\t\t\t\t}\n\t\t\t\tcontinue;\n\t\t\t}\n\n\t\t\tspecial = jQuery.event.special[ type ] || {};\n\t\t\ttype = ( selector ?
special.delegateType : special.bindType ) || type;\n\t\t\thandlers = events[ type ] || [];\n\t\t\ttmp = tmp[ 2 ]
&&\n\t\t\t\tnew RegExp( \"(^|\\\\.)\" + namespaces.join( \"\\\\.(?:.*\\\\.|)\" ) + \"(\\\\.|$)\" );\n\n\t\t\t// Remove
matching events\n\t\t\torigCount = j = handlers.length;\n\t\t\twhile ( j-- ) {\n\t\t\t\thandleObj = handlers[ j
];\n\n\t\t\t\tif ( ( mappedTypes || origType === handleObj.origType ) &&\n\t\t\t\t\t( !handler || handler.guid ===
handleObj.guid ) &&\n\t\t\t\t\t( !tmp || tmp.test( handleObj.namespace ) ) &&\n\t\t\t\t\t( !selector || selector ===
handleObj.selector ||\n\t\t\t\t\t\tselector === \"**\" && handleObj.selector ) ) {\n\t\t\t\t\thandlers.splice( j, 1
);\n\n\t\t\t\t\tif ( handleObj.selector ) {\n\t\t\t\t\t\thandlers.delegateCount--;\n\t\t\t\t\t}\n\t\t\t\t\tif ( special.remove )
{\n\t\t\t\t\t\tspecial.remove.call( elem, handleObj );\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Remove generic event
handler if we removed something and no more handlers exist\n\t\t\t// (avoids potential for endless recursion during
removal of special event handlers)\n\t\t\tif ( origCount && !handlers.length ) {\n\t\t\t\tif ( !special.teardown
||\n\t\t\t\t\tspecial.teardown.call( elem, namespaces, elemData.handle ) === false ) {\n\n\t\t\t\t\tjQuery.removeEvent(
elem, type, elemData.handle );\n\t\t\t\t}\n\n\t\t\t\tdelete events[ type ];\n\t\t\t}\n\t\t}\n\n\t\t// Remove data and the
expando if it's no longer used\n\t\tif ( jQuery.isEmptyObject( events ) ) {\n\t\t\tdataPriv.remove( elem, \"handle
events\" );\n\t\t}\n\t},\n\n\tdispatch: function( event ) {\n\n\t\t// Make a writable jQuery.Event from the native event
object\n\t\tevent = jQuery.event.fix( event );\n\n\t\tvar i, j, ret, matched, handleObj,\n\t\t\thandlerQueue =
[],\n\t\t\targs = slice.call( arguments ),\n\t\t\thandlers = ( dataPriv.get( this, \"events\" ) || {} )[ event.type ] ||
[],\n\t\t\tspecial = jQuery.event.special[ event.type ] || {};\n\n\t\t// Use the fix-ed jQuery.Event rather than the (readonly) native event\n\t\targs[ 0 ] = event;\n\t\tevent.delegateTarget = this;\n\n\t\t// Call the preDispatch hook for the
mapped type, and let it bail if desired\n\t\tif ( special.preDispatch && special.preDispatch.call( this, event ) ===
false ) {\n\t\t\treturn;\n\t\t}\n\n\t\t// Determine handlers\n\t\thandlerQueue = jQuery.event.handlers.call( this, event,
handlers );\n\n\t\t// Run delegates first; they may want to stop propagation beneath us\n\t\ti = 0;\n\t\twhile ( (
matched = handlerQueue[ i++ ] ) && !event.isPropagationStopped() ) {\n\t\t\tevent.currentTarget =
matched.elem;\n\n\t\t\tj = 0;\n\t\t\twhile ( ( handleObj = matched.handlers[ j++ ] )
&&\n\t\t\t\t!event.isImmediatePropagationStopped() ) {\n\n\t\t\t\t// Triggered event must either 1) have no
namespace, or 2) have namespace(s)\n\t\t\t\t// a subset or equal to those in the bound event (both can have no
namespace).\n\t\t\t\tif ( !event.rnamespace || event.rnamespace.test( handleObj.namespace ) )

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triggered image.load events from bubbling to window.load

```javascript
				// Fire native event if possible so blur/focus sequence is correct
				trigger: function() {
					// Fire native event so checked state will be right
					trigger: function() {
						// For checkbox, fire native event
						// For cross-browser consistency, don't fire native .click() on links
							// Support: Firefox 20+ & Windows 8
							// Firefox doesn't alert if the return Value field is not set.
							{
								// event.result != undefined & event.originalEvent
								// Value has been marked as prevented
								// by a handler lower down the tree; reflect the correct value
								return true;
								return false;
								return false;
								return false;
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		```
The given text appears to be a block of code, possibly a JavaScript function or method. Due to the nature of the code, it may be challenging to convert it into a plain text representation without context. The code includes functions, nested functions, and variable definitions that are typical in JavaScript programming. However, without additional context or a specific question about this code, it's not possible to provide a meaningful plain text representation.
elem, this.nextSibling);}

			}
		} );
	},

	empty: function() {
		var elem,
			i = 0;

		for ( ; ( elem = this[ i ] ) != null; i++ ) {
			if ( elem.nodeType === 1 ) {

				// Prevent memory leaks
				jQuery.cleanData( getAll( elem, false ) );

				// Remove any remaining nodes
			
elem.textContent = "";
			}
		}

		return this;
	},

	clone: function( dataAndEvents, deepDataAndEvents ) {
		dataAndEvents = dataAndEvents == null ? false : dataAndEvents;
		datasetsAndEvents = deepDataAndEvents == null ? dataAndEvents : deepDataAndEvents;

		return this.map( function() {
			return jQuery.clone( this, dataAndEvents, deepDataAndEvents );
		} );

	},

	html: function( value ) {
		return access( this, function( value ){
			var elem = this[ 0 ] || {},
				i = 0,
				l = this.length;

			if ( value === undefined && elem.nodeType === 1 ) {

				// Prevent memory leaks
				jQuery.cleanData( getAll( elem, false ) );

				// Remove any remaining nodes
			
elem.textContent = "";
			}

			// See if we can take a shortcut and just use innerHTML
			if ( typeof value === "string" && !rnoInnerhtml.test( value ) && !wrapMap[rtagName.exec( value ) || ["", ""]][1].toLowerCase() ) {

				value = jQuery.htmlPrefilter( value );

				try {
					for ( ; i < l; i++ ) {
						elem = this[ i ] || {};

						// Remove element nodes and prevent memory leaks
						jQuery.cleanData( getAll( elem, false ) );

						// Remove any remaining nodes
						elem.textContent = "";
					}

					elem = 0;

				// If using innerHTML throws an exception, use the fallback method
				} catch ( e ) {}
		}

			if ( elem ) {
				this.empty().append( value );
			}
		}, null, value, arguments.length );
	},

	replaceWith: function( args ) {
		var ignored = [ ];

		// Make the changes, replacing each non-ignored context element with the new content
		ret = domManip( this, arguments, function( elem ) {

			var parent = this.parentNode;

			if ( jQuery.inArray( this, ignored ) < 0 ) {

				jQuery.cleanData( getAll( this ) );

				if ( parent ) {

					parent.replaceChild( elem, this );
				}

			// Force callback invocation
		}

		}, ignored );
	}
} );

jQuery.each( {
	appendTo: "append",
	prependTo: "prepend",
	insertBefore: "before",
	insertAfter: "after",
	replaceAll: "replaceWith"
}, function( name, original ) {
	jQuery.fn[ name ] = function( selector ) {
		var elems,
			ret = [ ],
			insert = jQuery( selector ),
			last = insert.length - 1,
			i = 0;

		for ( ; i <= last; i++ ) {
			elems = i === last ? this : this.clone( true );

			insert[ i ]( elems );

			// Support: QtWebKit
			// .get() because push.apply(_, arraylike)
			push.apply( ret, elems.get() );

		}

		return this.pushStack( ret );
	};
} );

var iframe,
	elemdisplay = { HTML: "block", BODY: "block"};

/**
 * Retrieve the actual display of an element
 * @param {String} name nodeName of the element
 * @param {Object} doc Document object
 */

// Called only from within defaultDisplay
function actualDisplay( name, doc ) {

	var view = doc.defaultView ? doc.defaultView.getComputedStyle( doc, null ) : null;

	return view && view.getPropertyValue || view.getComputedStyle ? view.getPropertyValue ? view.getPropertyValue( name ) : view.getComputedStyle( doc, null ).getPropertyValue( name ) : null;
}

/**
 * Try to determine the default display value of an element
 * @param {String} nodeName
 */

// Use the already-created iframe if possible

// Always write a new HTML skeleton so Webkit and Firefox don’t choke on reuse

// Support: IE<=11+, Firefox<=30+( #15098, #14150)
IE throws on elements created in popup windows FF meanwhile throws on frame elements through `document.defaultView.getComputedStyle`

// Remember the old values, and insert the new ones if( name ) {
	
}
name ];
		}

	ret = callback.apply( elem, args || [] );

	// Revert the old values
	for ( name in options ) {
		elem.style[ name ] = old[ name ];
	}

	// Finish early in limited (non-browser) environments
	if ( div.style ) {
		return;
	}

	// Revert the old values
	for ( name in options ) {
		elem.style[ name ] = old[ name ];
	}

	return ret;
};

var documentElement =

document.documentElement;


( function() {
	var pixelPositionVal, boxSizingReliableVal,
	pixelMarginRightVal, reliableMarginLeftVal, container = document.createElement( "div" ),

tdiv = document.createElement( "div" );

// Style of cloned element affects source element cloned

// Support: IE9-11+/w

// Executing both pixelPosition & boxSizingReliable tests require only one layout/ut

// so they're executed at the same time to save the second computation


var documentElement =

document.documentElement;


( function() {
	var pixelPositionVal, boxSizingReliableVal,
	pixelMarginRightVal, reliableMarginLeftVal, container = document.createElement( "div" ),

tdiv = document.createElement( "div" );

// Support: Firefox<29, Android 2.3+/ut/ 

// No need to check if the test was already performed, 

// though.


function curCSS( elem, name, computed ) {
	var width, minWidth, maxWidth,

	computed = computed || getStyles( elem );
	ret = computed ?


computed.getPropertyValue( name ) || computed[ name ] : undefined;

	// Support: IE <=8 only, Android 4.0 - 4.3 only, Firefox <=3 - 37
	if ( ret === "" || ret === undefined ) {
		ret = jQuery.style( elem, name );
	}

	// Support: IE9
	if ( computed ) {

		// A tribute to the "awesome hack by Dean Edwards" in IE9/n
		// Android Browser returns percentage for some values/n
	// but width seems to be reliably pixels/n
	// This is against the CSSOM draft spec


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null
tween.style[function( tween )] = function( tween ) {
    var result;
    if ( tween.elem.nodeType !== 1 || tween.elem[ tween.prop ] != null && tween.elem.style[ tween.prop ] == null ) {
        return tween.elem[ tween.prop ];
    }
    result = jQuery.css( tween.elem, tween.prop, tween.now || tween.prop );
    if ( "auto" in result ) {
        result = result[ "auto" ];
    }
    if ( jQuery.fx.step[ tween.prop ] ) {
        jQuery.fx.step[ tween.prop ]( tween );
    } else if ( tween.elem.nodeType === 1 && tween.elem[ tween.prop ] != null ) {
        tween.elem[ tween.prop ] = tween.now;
    }
}
Tween.propHooks = {
    _default: {
        get: function( tween ) {
            var result;
            if ( tween.elem.nodeType !== 1 || tween.elem[ tween.prop ] != null && tween.elem.style[ tween.prop ] == null ) {
                return tween.elem[ tween.prop ];
            }
            result = jQuery.css( tween.elem, tween.prop, tween.now || tween.prop );
            if ( "auto" in result ) {
                result = result[ "auto" ];
            }
            if ( jQuery.fx.step[ tween.prop ] ) {
                jQuery.fx.step[ tween.prop ]( tween );
            } else if ( tween.elem.nodeType === 1 && tween.elem[ tween.prop ] != null ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        },
        set: function( tween ) {
            if ( jQuery.fx.step[ tween.prop ] ) {
                jQuery.fx.step[ tween.prop ]( tween );
            } else if ( tween.elem.nodeType === 1 && tween.elem[ tween.prop ] != null ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        }
    },
    scrollTop: Tween.propHooks.scrollTop = Tween.propHooks.scrollLeft = {
        set: function( tween ) {
            if ( tween.elem.nodeType ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        }
    }
};

jQuery.easing = {
    linear: function( p ) {
        return p;
    },
    swing: function( p ) {
        return 0.5 - Math.cos( p * Math.PI ) / 2;
    },
    _default: "swing"
};

jQuery.fx = Tween.prototype.init;

// Back Compat <1.8 extension point
Tween.prototype.init.prototype = Tween.prototype;

Tween.propHooks = {
    _default: {
        get: function( tween ) {
            var result;
            if ( tween.elem.nodeType !== 1 || tween.elem[ tween.prop ] != null && tween.elem.style[ tween.prop ] == null ) {
                return tween.elem[ tween.prop ];
            }
            result = jQuery.css( tween.elem, tween.prop, tween.now || tween.prop );
            if ( "auto" in result ) {
                result = result[ "auto" ];
            }
            if ( jQuery.fx.step[ tween.prop ] ) {
                jQuery.fx.step[ tween.prop ]( tween );
            } else if ( tween.elem.nodeType === 1 && tween.elem[ tween.prop ] != null ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        },
        set: function( tween ) {
            if ( jQuery.fx.step[ tween.prop ] ) {
                jQuery.fx.step[ tween.prop ]( tween );
            } else if ( tween.elem.nodeType === 1 && tween.elem[ tween.prop ] != null ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        }
    },
    scrollTop: Tween.propHooks.scrollTop = Tween.propHooks.scrollLeft = {
        set: function( tween ) {
            if ( tween.elem.nodeType ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        }
    }
};

jQuery.fx = Tween.prototype.init;

// Back Compat <1.8 extension point
Tween.prototype.init.prototype = Tween.prototype;

Tween.propHooks = {
    _default: {
        get: function( tween ) {
            var result;
            if ( tween.elem.nodeType !== 1 || tween.elem[ tween.prop ] != null && tween.elem.style[ tween.prop ] == null ) {
                return tween.elem[ tween.prop ];
            }
            result = jQuery.css( tween.elem, tween.prop, tween.now || tween.prop );
            if ( "auto" in result ) {
                result = result[ "auto" ];
            }
            if ( jQuery.fx.step[ tween.prop ] ) {
                jQuery.fx.step[ tween.prop ]( tween );
            } else if ( tween.elem.nodeType === 1 && tween.elem[ tween.prop ] != null ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        },
        set: function( tween ) {
            if ( jQuery.fx.step[ tween.prop ] ) {
                jQuery.fx.step[ tween.prop ]( tween );
            } else if ( tween.elem.nodeType === 1 && tween.elem[ tween.prop ] != null ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        }
    },
    scrollTop: Tween.propHooks.scrollTop = Tween.propHooks.scrollLeft = {
        set: function( tween ) {
            if ( tween.elem.nodeType ) {
                tween.elem[ tween.prop ] = tween.now;
            }
        }
    }
};

};
false ) {\n\t\t\ttype = type || \"fx\";\n\t\t}\n\t\treturn this.each( function() {\n\t\t\tvar index,\n\t\t\t\tdata = dataPriv.get(
this ),\n\t\t\t\tqueue = data[ type + \"queue\" ],\n\t\t\t\thooks = data[ type + \"queueHooks\" ],\n\t\t\t\ttimers =
jQuery.timers,\n\t\t\t\tlength = queue ? queue.length : 0;\n\n\t\t\t// Enable finishing flag on private
data\n\t\t\tdata.finish = true;\n\n\t\t\t// Empty the queue first\n\t\t\tjQuery.queue( this, type, [] );\n\n\t\t\tif ( hooks
&& hooks.stop ) {\n\t\t\t\thooks.stop.call( this, true );\n\t\t\t}\n\n\t\t\t// Look for any active animations, and finish
them\n\t\t\tfor ( index = timers.length; index--; ) {\n\t\t\t\tif ( timers[ index ].elem === this && timers[ index ].queue
=== type ) {\n\t\t\t\t\ttimers[ index ].anim.stop( true );\n\t\t\t\t\ttimers.splice( index, 1 );\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t//
Look for any animations in the old queue and finish them\n\t\t\tfor ( index = 0; index < length; index++ ) {\n\t\t\t\tif
( queue[ index ] && queue[ index ].finish ) {\n\t\t\t\t\tqueue[ index ].finish.call( this );\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t//
Turn off finishing flag\n\t\t\tdelete data.finish;\n\t\t} );\n\t}\n} );\n\njQuery.each( [ \"toggle\", \"show\", \"hide\" ],
function( i, name ) {\n\tvar cssFn = jQuery.fn[ name ];\n\tjQuery.fn[ name ] = function( speed, easing, callback )
{\n\t\treturn speed == null || typeof speed === \"boolean\" ?\n\t\t\tcssFn.apply( this, arguments ) :\n\t\t\tthis.animate(
genFx( name, true ), speed, easing, callback );\n\t};\n} );\n\n// Generate shortcuts for custom
animations\njQuery.each( {\n\tslideDown: genFx( \"show\" ),\n\tslideUp: genFx( \"hide\" ),\n\tslideToggle: genFx(
\"toggle\" ),\n\tfadeIn: { opacity: \"show\" },\n\tfadeOut: { opacity: \"hide\" },\n\tfadeToggle: { opacity: \"toggle\"
}\n}, function( name, props ) {\n\tjQuery.fn[ name ] = function( speed, easing, callback ) {\n\t\treturn this.animate(
props, speed, easing, callback );\n\t};\n} );\n\njQuery.timers = [];\njQuery.fx.tick = function() {\n\tvar timer,\n\t\ti =
0,\n\t\ttimers = jQuery.timers;\n\n\tfxNow = jQuery.now();\n\n\tfor ( ; i < timers.length; i++ ) {\n\t\ttimer = timers[ i
];\n\n\t\t// Checks the timer has not already been removed\n\t\tif ( !timer() && timers[ i ] === timer )
{\n\t\t\ttimers.splice( i--, 1 );\n\t\t}\n\t}\n\n\tif ( !timers.length ) {\n\t\tjQuery.fx.stop();\n\t}\n\tfxNow =
undefined;\n};\n\njQuery.fx.timer = function( timer ) {\n\tjQuery.timers.push( timer );\n\tif ( timer() )
{\n\t\tjQuery.fx.start();\n\t} else {\n\t\tjQuery.timers.pop();\n\t}\n};\n\njQuery.fx.interval = 13;\njQuery.fx.start =
function() {\n\tif ( !timerId ) {\n\t\ttimerId = window.setInterval( jQuery.fx.tick, jQuery.fx.interval
);\n\t}\n};\n\njQuery.fx.stop = function() {\n\twindow.clearInterval( timerId );\n\n\ttimerId =
null;\n};\n\njQuery.fx.speeds = {\n\tslow: 600,\n\tfast: 200,\n\n\t// Default speed\n\t_default: 400\n};\n\n\n// Based
off of the plugin by Clint Helfers, with permission.\n//
time;\n\ttype = type || \"fx\";\n\n\treturn this.queue( type, function( next, hooks ) {\n\t\tvar timeout =
window.setTimeout( next, time );\n\t\thooks.stop = function() {\n\t\t\twindow.clearTimeout( timeout );\n\t\t};\n\t}
);\n};\n\n\n( function() {\n\tvar input = document.createElement( \"input\" ),\n\t\tselect = document.createElement(
\"select\" ),\n\t\topt = select.appendChild( document.createElement( \"option\" ) );\n\n\tinput.type =
\"checkbox\";\n\n\t// Support: iOS<=5.1, Android<=4.2+\n\t// Default value for a checkbox should be
\"on\"\n\tsupport.checkOn = input.value !== \"\";\n\n\t// Support: IE<=11+\n\t// Must access selectedIndex to make
default options select\n\tsupport.optSelected = opt.selected;\n\n\t// Support: Android<=2.3\n\t// Options inside
disabled selects are incorrectly marked as disabled\n\tselect.disabled = true;\n\tsupport.optDisabled =
!opt.disabled;\n\n\t// Support: IE<=11+\n\t// An input loses its value after becoming a radio\n\tinput =
document.createElement( \"input\" );\n\tinput.value = \"t\";\n\tinput.type = \"radio\";\n\tsupport.radioValue =
input.value === \"t\";\n} )();\n\n\nvar boolHook,\n\tattrHandle = jQuery.expr.attrHandle;\n\njQuery.fn.extend(
{\n\tattr: function( name, value ) {\n\t\treturn access( this, jQuery.attr, name, value, arguments.length > 1
);\n\t},\n\n\tremoveAttr: function( name ) {\n\t\treturn this.each( function() {\n\t\t\tjQuery.removeAttr( this, name
);\n\t\t} );\n\t}\n} );\n\njQuery.extend( {\n\tattr: function( elem, name, value ) {\n\t\tvar ret, hooks,\n\t\t\tnType =
elem.nodeType;\n\n\t\t// Don't get/set attributes on text, comment and attribute nodes\n\t\tif ( nType === 3 || nType
=== 8 || nType === 2 ) {\n\t\t\treturn;\n\t\t}\n\n\t\t// Fallback to prop when attributes are not supported\n\t\tif (
typeof elem.getAttribute === \"undefined\" ) {\n\t\t\treturn jQuery.prop( elem, name, value );\n\t\t}\n\n\t\t// All
attributes are lowercase\n\t\t// Grab necessary hook if one is defined\n\t\tif ( nType !== 1 || !jQuery.isXMLDoc(
elem ) ) {\n\t\t\tname = name.toLowerCase();\n\t\t\thooks = jQuery.attrHooks[ name ] ||\n\t\t\t\t(
jQuery.expr.match.bool.test( name ) ? boolHook : undefined );\n\t\t}\n\n\t\tif ( value !== undefined ) {\n\t\t\tif (

Open Source Used In Secure Workload 3.6.1.1 19559


convertible dataTypes.unshift( {"type in responses "} || s.converters["type + " + dataTypes[0]] );

// Counter for holding the number of active queries
active: 0,

// Create converters map with lowercased keys
converters = {},

// Work with a copy of dataTypes in case we need to modify it for conversion
dataTypes = s.dataTypes.slice();

// Create converters with map of dataTypes to converters
for (type in dataTypes) {
  dataTypes.unshift( finalDataType );
}

// Also sets the responseXXX fields on the jqXHR instance
response = function jsonConvert( s, response, jqXHR, isSuccess ) {
  var conv2, current, tmp, prev, converters = {};

  return { state: "success", data: response
```
Building a settings object

```javascript
ajaxExtend{ (target, jQuery.ajaxSettings) }:

Extending ajaxSettings

```
Open Source Used In Secure Workload 3.6.1.1 19568
function buildParams( prefix, obj, traditional, add ) {
  var name,
  // Serialize array item.
  for ( i in obj )
    if ( jQuery.isArray( obj ) ) {
      // Treat each array item as a scalar.
      add( prefix, obj[ i ] );
    } else if ( !traditional || jQuery.isFunction( obj ) ) {
      // Serialize scalar item.
      add( prefix + 

        // NAME of the item to serialize.
        "[" + name + "]",
        obj[ i ] );
    } else {
      // Item is non-scalar (array or object), encode its numeric index.
      add( prefix + 

        // NAME of the item to serialize.
        "[" + i + "]",
        obj[ i ] );
    }
}

// Serialize an array of form elements or a set of
// key/values into a query string
jQuery.param = function( a, traditional ) {
  var prefix,
  s = [],
  add = function( key, value ) {
    // If value is a function, invoke it and return its value
    value = jQuery.isFunction( value ) ? value() : ( value == null ? "" : value);
    s[ s.length ] = 

    // UTF-8 encoding +-urlencode for blank, plus safe delimiters
    encodeURIComponent( key ) + "=" + encodeURIComponent( value );
  }

  // Set traditional to true for jQuery <= 1.3.2 behavior.
  traditional = traditional === undefined ? jQuery.ajaxSettings && jQuery.ajaxSettings.traditional : traditional;

  // If an array was passed in, assume that it is an
  // array of form elements.
  if ( jQuery.isArray( a ) || ( a.jquery && !jQuery.isPlainObject( a ) ) ) {
    jQuery.each( a, function( i, v ) {
      if ( traditional || rbracket.test( prefix ) ) {
        // Treat each array item as a scalar.
        add( prefix, v );
      } else {
        // Item is non-scalar (array or object), encode its numeric index.
        buildParams( prefix + 

          // NAME of the item to serialize.
          ",",
          jQuery.isArray( v ) ? v : jQuery.isFunction( v ) ? v() : ( v == null ? "" : v ),
          traditional, add );
      }
    } );
  } else {
    // Serialize scalar item.
    for ( prefix in a ) {
      buildParams( prefix + 

        // NAME of the item to serialize.
        ",",
        a[ prefix ], traditional, add );
    }
  }

  // Return the resulting serialization
  return s.join( "&" ).replace( r20, "+" );
};

jQuery.fn.extend( {
  serialize: function() {
    return jQuery.param( this.serializeArray() );
  },
  serializeArray: function() {
    return this.map( function() {
      // Can add propHook for "elements" to filter or add form elements
      var elements = jQuery.prop( this, "elements" );
      return elements ? jQuery.makeArray( elements ) : this;
    } ).filter( function() {
      var type = this.type;
      // Use .is( ":disabled" ) so that fields[disabled] works
      return this.name && !jQuery( this ).is( ":disabled" ) &&

      // Cross domain only allowed if supported through XMLHttpRequest
      if ( support.cors || xhrSupported ) {
        return {

          // Callback
          callback = function( type ) {
            if ( callback ) {
              callback = errorCallback = xhr.onload =

              // Set header
              headers[ X-Requested-With ] = "XMLHttpRequest";
              Set headers[ X-Requested-With ] = "XMLHttpRequest";
              Call back = function( type ) {
                return callback( type );
              };
          } else {
            // Callback
            callback = function( type ) {
              return callback( type );
            };
          }
        };
      }
      return this;
    } )
      .map( function( i, elem ) {
        var val = jQuery( this ).val();
        return val == null ? null : jQuery.isArray( val ) ? jQuery.map( val, function( val ) {
          // UTF-8 encoding +-urlencode for blank, plus safe delimiters
          return encodeURIComponent( name ) + "=" + encodeURIComponent( value );
        } ).get();
      } )
      .get();
    }
  }
});

jQuery.ajaxSettings.xhr = function() {
  try {
    return new window.XMLHttpRequest();
  } catch ( e ) {};

  var xhrSupported = jQuery.ajaxSettings.xhr();
  if ( xhrSupported ) {
    return {
      xhr: function( url, type, async, xhrFields, xdomain, options ) {
        // Apply custom fields if provided.
        for ( i in options.xhrFields ) {
          xhrFields[ i ] = options.xhrFields[ i ];
        }
        // Override mime type if needed.
        if ( options.mimeType && xhrFieldsoverrideMimeType( options.mimeType ) ) {
          xhrFields[ "Content-Type" ] = options.mimeType;
        }
        // X-Requested-With header
        return {
          // Callback
          callback = function( type ) {
            return callback( type );
          };
        };
      }
    };
  }
  return {
    xhr: function( url, type, async, xhrFields, xdomain, options ) {
      if ( options.xhrFields ) {
        for ( i in options.xhrFields ) {
          xhrFields[ i ] = options.xhrFields[ i ];
        }
        // Override mime type if needed.
        if ( options.mimeType && xhrFieldsoverrideMimeType( options.mimeType ) ) {
          xhrFields[ "Content-Type" ] = options.mimeType;
        }
        // X-Requested-With header
        return {
          // Callback
          callback = function( type ) {
            return callback( type );
          };
        };
      }
    }
  };
};
Use data converter to retrieve json after script execution.

```javascript
if ( jsonProp ) {
    s[ jsonProp ] = s[ jsonProp ].replace( rjsonp, "$1" + callbackName );
} else if ( sjsonp !== false ) {
    s.url += ( rquery.test( s.url ) ? "&" : "?" ) + sjsonp + "=" + callbackName;
}

// Use data converter to retrieve json after script execution
return responseContainer[ 0 ];
```

```javascript
// Make sure that re-using the options doesn't screw things around
jsonpCallback = originalSettings.jsonpCallback;
```

```javascript
// Delegate to script
return "script";
}
```
Set position first, in-case top/left are set even on static

// Set position first, in-case top/left are set even on static
curElem = jQuery( elem ), curProps = {};

// Set position first, in-case top/left are set even on static

curOffset = curElem.offset();
curCSSTop = jQuery.css( elem, "top" );
curCSSLeft = jQuery.css( elem, "left" );
indexOff( "auto" ) > -1; Need to be able to calculate position if either

calculatePosition = ( position === "absolute" || position === "fixed" ) &

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = curOffset.top;
curLeft = curOffset.left;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}

// Need to be able to calculate position if either

calculatePosition ) {

curPosition = curElem.position();
curTop = curPosition.top;
curLeft = curPosition.left;
else

curTop = parseFloat( curCSSTop ) || 0;
curLeft = parseFloat( curCSSLeft ) || 0;
}
jQuery.each( [ "top", "left" ], function( i, prop ) {
} );

// Create innerHeight, innerWidth, height, width, outerHeight and outerWidth methods
jQuery.each( [ "outer" + name, function( defaultExtra, funcName ) {
    jQuery.cssHooks[ prop ] = addGetHookIf( support.pixelPosition, function( elem, computed ) {
        if ( computed ) {
            computed = curCSS( elem, prop );
            if ( computed ) {
                computed = curCSS( elem, prop ) + "px";
            } else {
                computed = doc[ "offset" + prop ] + "px";
            }
            jQuery.style( elem, prop, computed, true );
        } else {
            jQuery.cssHooks[ prop ] = addGetHookIf( support.pixelPosition, function( elem, computed ) {
                if ( computed ) {
                    computed = curCSS( elem, prop );
                } else {
                    computed = doc[ "offset" + prop ] + "px";
                }
                jQuery.style( elem, prop, computed, true );
            } );
        }
    } );
} );

// Create innerHeight, innerWidth, height, width, outerHeight and outerWidth methods
jQuery.extend( jQuery.fn, { get: function() {
    return this;  // Get document width or height
    return this[ 0 ] && this[ 0 ].document.documentElement;  // Get element width or height
    return Math.max( this[ 0 ] && window.innerHeight || Math.max( document.documentElement.clientHeight, document.body.clientHeight ), Math.max( this[ 0 ] && document.body.scrollHeight, document.documentElement.scrollHeight ) );  // Get the viewport height
    return this[ 0 ] && this[ 0 ].scrollHeight;  // Get the element's scroll height
    return this.offsetParent || this.offsetParent || this.offsetParent;
} });

jQuery.fn.extend( { bind: function( types, data, fn ) {
    return this.on( types, null, data, fn );
}, unbind: function( types, fn ) {
    return this.off( types, null, fn );
} });

// Register as a named AMD module, since jQuery can be concatenated with other
// files that may use define, but not via a proper concatenation script that
// understands anonymous AMD modules. A named AMD is safest and most robust
// way to register. Lowercase jquery is used because AMD module names are
// derived from file names, and jQuery
// is normally delivered in a lowercase
// file name. Do this after creating the global so that if an AMD module
// wants\n// to call noConflict to hide this version of jQuery, it will work.\n// Note that for maximum portability,
// libraries that are not jQuery should\n// declare themselves as anonymous modules, and avoid setting a global if
// Named AMD loader is present. jQuery is a special case. For more information, see\n// https://github.com/jrburke/requirejs/wiki/Updating-existing-libraries#wiki-anon
// and CommonJS for browser emulators (#13566)\n// Note that for maximum portability,
// libraries that are not jQuery should\n// declare themselves as anonymous modules, and avoid setting a global if
// Named AMD loader is present. jQuery is a special case. For more information, see\n// https://github.com/jrburke/requirejs/wiki/Updating-existing-libraries#wiki-anon\n// and CommonJS for browser emulators (#13566)\n// Note that for maximum portability,
require("./widget_image"),
require("./widget_int"),
require("./widget_color"),
require("./widget_selection"),
require("./widget_selectioncontainer"),
require("./widget_string"),
require("./widget_controller"),
]

for (var i in loadedModules) {
    if (loadedModules.hasOwnProperty(i)) {
        var loadedModule = loadedModules[i];
        for (var target_name in loadedModule) {
            if (loadedModule.hasOwnProperty(target_name)) {
                module.exports[target_name] = loadedModule[target_name];
            }
        }
    }
}

module.exports['version'] = require('../package.json').version;

/*****************
 ** WEBPACK FOOTER
 ** ./~/jupyter-js-widgets/src/index.js
 ** module id = 5
 ** module chunks = 0
 **/
Resizable

```javascript
	hasScroll: function( el, a ) {

		//If overflow is hidden, the element might have extra content, but the
	s
					set[ i ]
	s
				}

	s
		}

	s
	},

	// only used by
	s
			return;

	s

	s
			for ( i = 0; i < set.length; i++ ) {

	s
				if ( instance.options[ set[ i ] ] ) {

	s
				proto = $.ui[ module ];

	s
				}

	s

	s
		$.extend( $.ui, {

	s
		// $.ui.plugin is deprecated. Use $.widget() extensions

	s
		});

	s

	s
		$.support.selectstart = "onselectstart" in

	s

	s
		key ) {

	s
			if ( arguments.length ) {

	s
				return removeData.call( this, $.camelCase( key ) );

	s

	s
			} else

	s

	s
				$.fn.removeData = (function( removeData ) {

	s

	s
					size -= parseFloat( $.css( elem, "padding" + this ) ) || 0;

	s

	s
					size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
					$.fn.innerWidth;

	s

	s
				innerHeight: $.fn.innerHeight,

	s

	s
				outerWidth: $.fn.outerWidth,

	s

	s
				outerHeight:

	s

	s
				-

	s

	s
				="Bottom"

	s

	s
			
type = name.toLowerCase(),

	s

	s
			orig = {

	s

	s
				innerWidth:

	s

	s
				innerHeight: $.fn.innerHeight,

	s

	s
				outerWidth: $.fn.outerWidth,

	s

	s
				outerHeight:

	s

	s
				="Bottom"

	s

	s
			$());

	s

	s
					$fn.removeData = (function( removeData ) {

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
					$fn.removeData = (function( removeData ) {

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
					$fn.removeData = (function( removeData ) {

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
					$fn.removeData = (function( removeData ) {

	s

	s
					$fn.removeData = (function( removeData ) {

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
					$fn.removeData = (function( removeData ) {

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

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					$fn.removeData = (function( removeData ) {

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						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

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					$fn.removeData = (function( removeData ) {

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						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

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	s
					$fn.removeData = (function( removeData ) {

	s

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						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

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					$fn.removeData = (function( removeData ) {

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	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

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	s
					$fn.removeData = (function( removeData ) {

	s

	s
						size -= parseFloat( $.css( elem, "border" + this ) ) || 0;

	s

	s
					$fn.removeData = (function( removeData ) {

	s

	s
	```
user wants to hide it:

```javascript
if ( $( el ).css("overflow") === 'hidden') {
  return false;
}

var scroll = (a & & a === 'left') ? 'scrollLeft' : 'scrollTop',

if ( el.scroll > 0 ) {
  return 0;
}

// TODO: determine which cases actually cause this to happen if
// the element doesn't have the scroll set, see if it's possible
to turn it/ set the scroll[ 0 ] has;[ 1 ] tends is = ( el[ scroll ] > 0 )
}( jQuery );

(function( $, undefined ) {

var uuid = 0,

$.cleanData = function( elems ) {
  for ( var i = 0, elem; (elem = elems[ i ]) != null; i++ ) {
    $( elem ).triggerHandler( "remove" );
    // http://bugs.jquery.com/ticket/8235
  }
  $.cleanData( elems );
};

$.widget = function( name, base, prototype ) {
  var fullName, existingConstructor, constructor, basePrototype, $proxy;

  // create selector for plugin

  $.expr[ ":" ][ fullName.toLowerCase() ] = function( elem ) {
    return !!$.data( elem, fullName );
  }

  // extend with the existing constructor to carry over any static properties

  $.extend( constructor, $.widget.extend( {}, basePrototype, {
    constructor: constructor,
    namespace: name,
    widgetName: name,
    widgetFullName: fullName
  }));

  // If this widget is being redefined then we need to find all widgets
  // that are inheriting from it and redefine all of them so that they
  // inherit from the new version of this widget.

  if (existingConstructor) {
    $.each( existingConstructor._childConstructors, function( i, child ) {
      var childPrototype = child.prototype;

      // redefine the child widget using the same prototype that was
      // originally used, but inherit from the new version of the base
      $.widget.extend( childPrototype, { name: name, namespace: newBase();

      // remove the list of existing child constructors
      delete existingConstructor._childConstructors;
    });
  } else {
    $.widget.extend( basePrototype, { name: name, namespace: newBase();

    // remove the list of existing child constructors
    delete existingConstructor._childConstructors;
  }

  // otherwise we'll modify the options hash on the prototype that we're
  // inheriting from

});

$.widget.extend = function( target ) {
  var input = slice.call( arguments, 1 ),
      inputIndex = 0,
      inputLength = input.length,
      key,
      value;
  for ( ; inputIndex < inputLength; inputIndex++ ) {
    if ( $isFunction( value ) ) {
      $proxy.push( { prop: key, value: value, $isFunction: $isFunction } );
    } else {
      $proxy.push( { prop: key, value: value } );
    }
  }

  // redefine the widget later

  $.each( $proxy, function( i, item ) {
    $( item[ "prototype" ] ).triggerHandler( "removed" );
    // this._createWidget
    $( item[ "originalPrototype" ] ).triggerHandler( "removed" );
    // this._createWidget
    $( item[ "originalPrototype" ] ).triggerHandler( "removed" );
  });
};

$.widget.bridge( name, constructor );

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true);\n\t\t\t}\n\n\t\t\tthis._mouseStop(event);\n\t\t}\n\n\t\treturn false;\n\t},\n\n\t_mouseDistanceMet:
function(event) {\n\t\treturn (Math.max(\n\t\t\t\tMath.abs(this._mouseDownEvent.pageX event.pageX),\n\t\t\t\tMath.abs(this._mouseDownEvent.pageY - event.pageY)\n\t\t\t) >=
this.options.distance\n\t\t);\n\t},\n\n\t_mouseDelayMet: function(/* event */) {\n\t\treturn
this.mouseDelayMet;\n\t},\n\n\t// These are placeholder methods, to be overriden by extending
plugin\n\t_mouseStart: function(/* event */) {},\n\t_mouseDrag: function(/* event */) {},\n\t_mouseStop:
function(/* event */) {},\n\t_mouseCapture: function(/* event */) { return true; }\n});\n\n})(jQuery);\n\n(function( $,
undefined ) {\n\n$.widget(\"ui.draggable\", $.ui.mouse, {\n\tversion: \"1.10.3\",\n\twidgetEventPrefix:
\"drag\",\n\toptions: {\n\t\taddClasses: true,\n\t\tappendTo: \"parent\",\n\t\taxis: false,\n\t\tconnectToSortable:
false,\n\t\tcontainment: false,\n\t\tcursor: \"auto\",\n\t\tcursorAt: false,\n\t\tgrid: false,\n\t\thandle: false,\n\t\thelper:
\"original\",\n\t\tiframeFix: false,\n\t\topacity: false,\n\t\trefreshPositions: false,\n\t\trevert: false,\n\t\trevertDuration:
500,\n\t\tscope: \"default\",\n\t\tscroll: true,\n\t\tscrollSensitivity: 20,\n\t\tscrollSpeed: 20,\n\t\tsnap:
false,\n\t\tsnapMode: \"both\",\n\t\tsnapTolerance: 20,\n\t\tstack: false,\n\t\tzIndex: false,\n\n\t\t// callbacks\n\t\tdrag:
null,\n\t\tstart: null,\n\t\tstop: null\n\t},\n\t_create: function() {\n\n\t\tif (this.options.helper === \"original\" &&
!(/^(?:r|a|f)/).test(this.element.css(\"position\"))) {\n\t\t\tthis.element[0].style.position = \"relative\";\n\t\t}\n\t\tif
(this.options.addClasses){\n\t\t\tthis.element.addClass(\"ui-draggable\");\n\t\t}\n\t\tif
(this.options.disabled){\n\t\t\tthis.element.addClass(\"ui-draggabledisabled\");\n\t\t}\n\n\t\tthis._mouseInit();\n\n\t},\n\n\t_destroy: function() {\n\t\tthis.element.removeClass( \"uidraggable ui-draggable-dragging ui-draggable-disabled\" );\n\t\tthis._mouseDestroy();\n\t},\n\n\t_mouseCapture:
function(event) {\n\n\t\tvar o = this.options;\n\n\t\t// among others, prevent a drag on a resizable-handle\n\t\tif
(this.helper || o.disabled || $(event.target).closest(\".ui-resizable-handle\").length > 0) {\n\t\t\treturn
false;\n\t\t}\n\n\t\t//Quit if we're not on a valid handle\n\t\tthis.handle = this._getHandle(event);\n\t\tif (!this.handle)
{\n\t\t\treturn false;\n\t\t}\n\n\t\t$(o.iframeFix === true ? \"iframe\" : o.iframeFix).each(function() {\n\t\t\t$(\"<div
class='ui-draggable-iframeFix' style='background: #fff;'></div>\")\n\t\t\t.css({\n\t\t\t\twidth: this.offsetWidth+\"px\",
height: this.offsetHeight+\"px\",\n\t\t\t\tposition: \"absolute\", opacity: \"0.001\", zIndex:
1000\n\t\t\t})\n\t\t\t.css($(this).offset())\n\t\t\t.appendTo(\"body\");\n\t\t});\n\n\t\treturn
true;\n\n\t},\n\n\t_mouseStart: function(event) {\n\n\t\tvar o = this.options;\n\n\t\t//Create and append the visible
helper\n\t\tthis.helper = this._createHelper(event);\n\n\t\tthis.helper.addClass(\"ui-draggabledragging\");\n\n\t\t//Cache the helper size\n\t\tthis._cacheHelperProportions();\n\n\t\t//If ddmanager is used for
droppables, set the global draggable\n\t\tif($.ui.ddmanager) {\n\t\t\t$.ui.ddmanager.current = this;\n\t\t}\n\n\t\t/*\n\t\t
* - Position generation -\n\t\t * This block generates everything position related - it's the core of draggables.\n\t\t
*/\n\n\t\t//Cache the margins of the original element\n\t\tthis._cacheMargins();\n\n\t\t//Store the helper's css
position\n\t\tthis.cssPosition = this.helper.css( \"position\" );\n\t\tthis.scrollParent =
this.helper.scrollParent();\n\t\tthis.offsetParent = this.helper.offsetParent();\n\t\tthis.offsetParentCssPosition =
this.offsetParent.css( \"position\" );\n\n\t\t//The element's absolute position on the page minus margins\n\t\tthis.offset
= this.positionAbs = this.element.offset();\n\t\tthis.offset = {\n\t\t\ttop: this.offset.top - this.margins.top,\n\t\t\tleft:
this.offset.left - this.margins.left\n\t\t};\n\n\t\t//Reset scroll cache\n\t\tthis.offset.scroll =
false;\n\n\t\t$.extend(this.offset, {\n\t\t\tclick: { //Where the click happened, relative to the element\n\t\t\t\tleft:
event.pageX - this.offset.left,\n\t\t\t\ttop: event.pageY - this.offset.top\n\t\t\t},\n\t\t\tparent:
this._getParentOffset(),\n\t\t\trelative: this._getRelativeOffset() //This is a relative to absolute position minus the
actual position calculation - only used for relative positioned helper\n\t\t});\n\n\t\t//Generate the original
position\n\t\tthis.originalPosition = this.position = this._generatePosition(event);\n\t\tthis.originalPageX =
event.pageX;\n\t\tthis.originalPageY = event.pageY;\n\n\t\t//Adjust the mouse offset relative to the helper if
\"cursorAt\" is supplied\n\t\t(o.cursorAt && this._adjustOffsetFromHelper(o.cursorAt));\n\n\t\t//Set a containment if
given in the options\n\t\tthis._setContainment();\n\n\t\t//Trigger event + callbacks\n\t\tif(this._trigger(\"start\", event)
=== false) {\n\t\t\tthis._clear();\n\t\t\treturn false;\n\t\t}\n\n\t\t//Recache the helper
size\n\t\tthis._cacheHelperProportions();\n\n\t\t//Prepare the droppable offsets\n\t\tif ($.ui.ddmanager &&
!o.dropBehaviour) {\n\t\t\t$.ui.ddmanager.prepareOffsets(this, event);\n\t\t}\n\n\n\t\tthis._mouseDrag(event, true);

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// Execute the drag once - this causes the helper not to be visible before getting its correct position

// If the ddmanager is used for droppables, inform the manager that dragging has started (see #5003)
$.ui.ddmanager.dragStart(this, event);

// reset any necessary cached properties (see #5009)
$(this).off('dragstop', $.ui.ddmanager.dragStop);

// Compute the helpers position
this.position = this._generatePosition(event);

// If the ddmanager is used for droppables, inform the manager that dragging has started (see #5003)
if ($.ui.ddmanager) {
	$.ui.ddmanager.dragStart(this, event);
}

return true;
},

// Compute the helpers position.
this.position = this._generatePosition(event);

// If the ddmanager is used for droppables, inform the manager that dragging has started (see #5003)
if ($.ui.ddmanager) {
	$.ui.ddmanager.dragStart(this, event);
}

return false;
},

// If the ddmanager is used for droppables, inform the manager that dragging has stopped (see #5003)
if ($.ui.ddmanager) {
	$.ui.ddmanager.dragStop(this, event);
}

return $.ui.mouse.prototype._mouseUp.call(this, event);
},

cancel: function() {

	if(this.helper.is(".ui-draggable-dragging")) {
			this._mouseUp({});
	} else {
			this._clear();
	}

	return this;

	},

_getHandle: function(event) {
		return this.options.handle ?
			!!$( event.target ).closest( this.element.find( this.options.handle ) ).length :
			true;
	},

_createHelper: function(event) {

		var o =
			$.isFunction(o.helper) ? $(o.helper.apply(this.element[0], [event])) : (o.helper === "clone" ? this.element.clone().removeAttr("id") : this.element);

		return helper;

	},

_adjustOffsetFromHelper: function(obj) {
		if (typeof obj === "string") {
			obj = obj.split(" ");
		}
		if ($.isArray(obj)) {
			obj = {left: +obj[0], top: +obj[1] || 0};
		}
		if ("left" in obj) {
			this.offset.click.left = obj.left +
			this.margins.left +
			this.helperProportions.width -
			thisMargins.left +
			"left" in obj ?
			this.offset.click.left = this.helperProportions.width -
			thisMargins.left +
			"top" in obj ?
			this.offset.click.top = obj.top +
			thisMargins.top +
			"bottom" in obj ?
			this.offset.click.top = this.helperProportions.height -
			thisMargins.top +
			"parent...
			$(this).offsetParent.scrollTop = this.helperProportions.height -
			thisMargins.top +
			$(this).getParentOffset: function() {
			$(this).Get the offsetParent and cache its properties.
			n
			$(this).offsetParent.scrollTop = this.helperProportions.height -
			thisMargins.top +
			$(this).getParentOffset: function() {
			$(this).Get the offsetParent and cache its properties.
			n
			$(this).offsetParent.scrollTop = this.helperProportions.height -
			thisMargins.top +

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this.scrollParent.scrollTop();
			po.top += this.scrollParent.scrollTop();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this.offsetLeft = 0;
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this.offsetTop = 0;
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this._cacheMargins();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this._cacheHelperProportions();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this._setContainment();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this._convertPositionTo();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this._generatePosition();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this[this.scrollParent.scrollLeft()] = this.scrollParent.scrollTop();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this[this.scrollParent.scrollTop()] = this.scrollParent.scrollTop();
		}

		//This needs to be actually done for all browsers, since pageX/pageY includes this information
		//Ugly IE fix
		if((this.offsetParent[0] === document.body) || $(this.offsetParent[0]).tagName && $.ui.ie) {
			this[this.scrollParent.scrollTop()] = this.scrollParent.scrollTop();
		}
$(this).data(\"ui-draggable\"),\n\t\t\tuiSortable = $.extend({}, ui, { item: inst.element });\n\n\t\t$.each(inst.sortables,
function() {\n\t\t\tif(this.instance.isOver) {\n\n\t\t\t\tthis.instance.isOver = 0;\n\n\t\t\t\tinst.cancelHelperRemoval =
true; //Don't remove the helper in the draggable instance\n\t\t\t\tthis.instance.cancelHelperRemoval = false;
//Remove it in the sortable instance (so sortable plugins like revert still work)\n\n\t\t\t\t//The sortable revert is
supported, and we have to set a temporary dropped variable on the draggable to support revert:
\"valid/invalid\"\n\t\t\t\tif(this.shouldRevert) {\n\t\t\t\t\tthis.instance.options.revert =
this.shouldRevert;\n\t\t\t\t}\n\n\t\t\t\t//Trigger the stop of the
sortable\n\t\t\t\tthis.instance._mouseStop(event);\n\n\t\t\t\tthis.instance.options.helper =
this.instance.options._helper;\n\n\t\t\t\t//If the helper has been the original item, restore properties in the
sortable\n\t\t\t\tif(inst.options.helper === \"original\") {\n\t\t\t\t\tthis.instance.currentItem.css({ top: \"auto\", left:
\"auto\" });\n\t\t\t\t}\n\n\t\t\t} else {\n\t\t\t\tthis.instance.cancelHelperRemoval = false; //Remove the helper in the
sortable instance\n\t\t\t\tthis.instance._trigger(\"deactivate\", event, uiSortable);\n\t\t\t}\n\n\t\t});\n\n\t},\n\tdrag:
function(event, ui) {\n\n\t\tvar inst = $(this).data(\"ui-draggable\"), that = this;\n\n\t\t$.each(inst.sortables, function()
{\n\n\t\t\tvar innermostIntersecting = false,\n\t\t\t\tthisSortable = this;\n\n\t\t\t//Copy over some variables to allow
calling the sortable's native _intersectsWith\n\t\t\tthis.instance.positionAbs =
inst.positionAbs;\n\t\t\tthis.instance.helperProportions = inst.helperProportions;\n\t\t\tthis.instance.offset.click =
inst.offset.click;\n\n\t\t\tif(this.instance._intersectsWith(this.instance.containerCache))
{\n\t\t\t\tinnermostIntersecting = true;\n\t\t\t\t$.each(inst.sortables, function () {\n\t\t\t\t\tthis.instance.positionAbs =
inst.positionAbs;\n\t\t\t\t\tthis.instance.helperProportions = inst.helperProportions;\n\t\t\t\t\tthis.instance.offset.click
= inst.offset.click;\n\t\t\t\t\tif (this !== thisSortable
&&\n\t\t\t\t\t\tthis.instance._intersectsWith(this.instance.containerCache)
&&\n\t\t\t\t\t\t$.contains(thisSortable.instance.element[0], this.instance.element[0])\n\t\t\t\t\t)
{\n\t\t\t\t\t\tinnermostIntersecting = false;\n\t\t\t\t\t}\n\t\t\t\t\treturn
innermostIntersecting;\n\t\t\t\t});\n\t\t\t}\n\n\n\t\t\tif(innermostIntersecting) {\n\t\t\t\t//If it intersects, we use a little
isOver variable and set it once, so our move-in stuff gets fired only once\n\t\t\t\tif(!this.instance.isOver)
{\n\n\t\t\t\t\tthis.instance.isOver = 1;\n\t\t\t\t\t//Now we fake the start of dragging for the sortable
instance,\n\t\t\t\t\t//by cloning the list group item, appending it to the sortable and using it as
inst.currentItem\n\t\t\t\t\t//We can then fire the start event of the sortable with our passed browser event, and our
own helper (so it doesn't create a new one)\n\t\t\t\t\tthis.instance.currentItem =
$(that).clone().removeAttr(\"id\").appendTo(this.instance.element).data(\"ui-sortable-item\",
true);\n\t\t\t\t\tthis.instance.options._helper = this.instance.options.helper; //Store helper option to later restore
it\n\t\t\t\t\tthis.instance.options.helper = function() { return ui.helper[0]; };\n\n\t\t\t\t\tevent.target =
this.instance.currentItem[0];\n\t\t\t\t\tthis.instance._mouseCapture(event,
true);\n\t\t\t\t\tthis.instance._mouseStart(event, true, true);\n\n\t\t\t\t\t//Because the browser event is way off the new
appended portlet, we modify a couple of variables to reflect the changes\n\t\t\t\t\tthis.instance.offset.click.top =
inst.offset.click.top;\n\t\t\t\t\tthis.instance.offset.click.left =
inst.offset.click.left;\n\t\t\t\t\tthis.instance.offset.parent.left -= inst.offset.parent.left this.instance.offset.parent.left;\n\t\t\t\t\tthis.instance.offset.parent.top -= inst.offset.parent.top this.instance.offset.parent.top;\n\n\t\t\t\t\tinst._trigger(\"toSortable\", event);\n\t\t\t\t\tinst.dropped =
this.instance.element; //draggable revert needs that\n\t\t\t\t\t//hack so receive/update callbacks work
(mostly)\n\t\t\t\t\tinst.currentItem = inst.element;\n\t\t\t\t\tthis.instance.fromOutside =
inst;\n\n\t\t\t\t}\n\n\t\t\t\t//Provided we did all the previous steps, we can fire the drag event of the sortable on every
draggable drag, when it intersects with the sortable\n\t\t\t\tif(this.instance.currentItem)
{\n\t\t\t\t\tthis.instance._mouseDrag(event);\n\t\t\t\t}\n\n\t\t\t} else {\n\n\t\t\t\t//If it doesn't intersect with the
sortable, and it intersected before,\n\t\t\t\t//we fake the drag stop of the sortable, but make sure it doesn't remove the
helper by using cancelHelperRemoval\n\t\t\t\tif(this.instance.isOver) {\n\n\t\t\t\t\tthis.instance.isOver =
0;\n\t\t\t\t\tthis.instance.cancelHelperRemoval = true;\n\n\t\t\t\t\t//Prevent reverting on this forced
stop\n\t\t\t\t\tthis.instance.options.revert = false;\n\n\t\t\t\t\t// The out event needs to be triggered

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independently

```javascript
this.instance._trigger("out", event,
this.instance._uiHash(this.instance));

					this.instance._trigger("fromSortable",
event);

					inst._trigger("out", event,
this.instance._uiHash(this.instance));

					this.instance._mouseStop(event,
true);

					this.instance.remove();

					this.instance._uiHash(this.instance);

					this.instance = null;

					this.instance = ...

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

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					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

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					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

					this.instance = null;

					this.instance._destroy();

		```

$.ui.plugin.add("draggable", "cursor", {
	start: function()

		var t = $("body"), o = $(this).data("ui-draggable").options;

		if (t.css("cursor")) {

			o._cursor = t.css("cursor");

		}

		t.css("cursor", o.cursor);

		inst._trigger("fromSortable",
event);

		inst.dropped = false; // draggable revert needs

		```
Open Source Used In Secure Workload 3.6.1.1 19587

```
$(this.element.removeClass(this.options.activeClass));

			this._trigger("deactivate", event, this.ui(draggable));
			$(this).removeClass(this.options.activeClass);
			his._trigger("deactivate", event, this.ui(draggable));
			$(this).removeClass(this.options.hoverClass);
			$(this).removeClass(this.options.activeClass);
			his._trigger("deactivate", event, this.ui(draggable));
			$(this).removeClass(this.options.hoverClass);
			$(this).removeClass(this.options.activeClass);
			his._trigger("deactivate", event, this.ui(draggable));
			$(this).removeClass(this.options.hoverClass);
			$(this).removeClass(this.options.activeClass);
			his._trigger("deactivate", event, this.ui(draggable));
			$(this).removeClass(this.options.hoverClass);
			$(this).removeClass(this.options.activeClass);
			his._trigger("deactivate", event, this.ui(draggable));
			$(this).removeClass(this.options.hoverClass);
			$(this).removeClass(this.options.activeClass);
			his._trigger("deactivate", event, this.ui(draggable));
			$(this).removeClass(this.options.hoverClass);
			$(this).removeClass(this.options.activeClass);
			his._trigger("deactivate", event, this.ui(draggable));
```
Open Source Used In Secure Workload 3.6.1.1
Call the user callback if the element was resized

```javascript
if (!$.isEmptyObject(props)) {
  this._trigger("resize", event, this.ui());
}

// TODO - jump height
null
```

```javascript
if (this._helper) {
  this._proportionallyResizeElements;
  ista = pr.length && (/textarea/i).test(pr[0].nodeName);
  soffseth = ista && $.ui.hasScroll(pr[0], "left") ? 0 : that.sizeDiff.height;
  soffsetw = ista ? 0 : that.sizeDiff.width;
  s = { width: (that.helper.width() - soffsetw), height: (that.helper.height() - soffseth));
  if (!o.animate) {
    that.element.css($extend(s, { top: top, left: left }));
  }
  $("body").css("cursor", "auto");
  that._updateCache;
}
```

First, compute the "projected" size for each dimension based on the aspect ratio and other dimensions.

```javascript
b = {
  minWidth: isNumber(o.minWidth) ? o.minWidth : 0,
  maxWidth: isNumber(o.maxWidth) ? o.maxWidth : Infinity,
  minHeight: isNumber(o.minHeight) ? o.minHeight : 0,
  maxHeight: isNumber(o.maxHeight) ? o.maxHeight : Infinity
};
```

```javascript
if (this._aspectRatio || forceAspectRatio) {
  // We want to create an enclosing box whose aspect ratio is the requested one
  var
    pMinWidth = b.minHeight * this.aspectRatio;
    pMinHeight = b.minWidth / this.aspectRatio;
    pMaxWidth = b.maxHeight * this.aspectRatio;
    pMaxHeight = b.maxWidth / this.aspectRatio;

    if (pMinWidth > b.minWidth) {
      b.minWidth = pMinWidth;
    }
    if (pMinHeight > b.minHeight) {
      b.minHeight = pMinHeight;
    }
    if (pMaxWidth < b.maxWidth) {
      b.maxWidth = pMaxWidth;
    }
    if (pMaxHeight < b.maxHeight) {
      b.maxHeight = pMaxHeight;
    }

    this._vBoundaries = b;
}
```

```javascript
this._respectSize( data ) {
  var o = this._vBoundaries,
    a = this.axis,
    ismaxw = isNumber(data.width) && o.maxWidth && (o.maxWidth < data.width),
    ismaxh = isNumber(data.height) && o.maxHeight && (o.maxHeight < data.height),
    dw = this.originalPosition.left + this.originalSize.width,
    dh = this.position.top + this.size.height,
    cw = /sw|nw|w/.test(a), ch = /nw|ne|n/.test(a);
  if (isminw) {
    data.width = o.minWidth;
  }
  if (ismaxw) {
    data.width = o.maxWidth;
  }
  if (ismaxh) {
    data.height = o.maxHeight;
  }

  if (!data.width && !data.height && !data.left && data.top) {
    data.top = null;
  } else if (!data.width && !data.height && !data.left && data.top) {
    data.left = null;
  }
  return false;
}
```

```javascript
this._updateVirtualBoundaries: function(forceAspectRatio) {
  this._updateCache;
  this._updateRatio;
  this._respectSize;
  return false;
}
```

```javascript
this._propogate("stop", event);
```

```javascript
this.helper.remove();
```

```javascript
this._trigger("mouseup", event, this.ui());
```

```javascript
this._propogate("mouseup", event);
```

```javascript
this._trigger("mouseleave", event);
```

```javascript
this.element.removeClass("ui-resizable-resizing");
```

```javascript
this._propogate("mouseleave", event);
```

```javascript
function(查获Ratio) {
  var pr, ista, soffseth, soffsetw, s, left, top, t = this.options, that = this;
  if (this._helper) {
    pr = this._proportionallyResizeElements;
    ista = pr.length && (/textarea/i).test(pr[0].nodeName);
    soffseth = ista && $.ui.hasScroll(pr[0], "left") ? 0 : that.sizeDiff.height;
    soffsetw = ista ? 0 : that.sizeDiff.width;
    s = { width: (that.helper.width() - soffsetw), height: (that.helper.height() - soffseth) };
    that.element.css($extend(s, { top: top, left: left }));
    $("body").css("cursor", "auto");
    that.helper.remove();
    return false;
  }
```

```javascript
this.offset = this.helper.offset();
```
this.helper.css({
  "left": event.pageX,
  "top": event.pageY,
  "width": 0,
  "height": 0,
}).show();

if (options.autoRefresh) {
  this.refresh();
}

this.selectees.filter(".ui-selected").each(function() {
  var selectee = $data(this, "selectable-item");
  this.selectee.startselected = true;
  this.selectee.startselected = false;
  this.selectee.$element.removeClass("ui-selected");
  this.selectee.$element.hasClass("ui-selected")
  this.selectee.$element.unselecting = true;
  this.selectee.unselecting = true;
  this.selectee.$element.removeClass("ui-selected");
  this.selectee.$element.addClass("ui-unselecting");
  this.selectee.unselecting = true;
}).each(function() {
  var selectee = $.data(this, "selectable-item");
  selectee.$element.removeClass("ui-selected");
  selectee.selected = false;
  this.$weselectee.$weselectee.$element.removeClass("ui-selected");
  this.$weselectee.$weselectee.$element.addClass("ui-unselecting");
  this.$weselectee.$weselectee.unselecting = true;
  this.$weselectee.$weselectee.unselecting = true;
}).each(function() {
  var selectee = $.data(this, "selectable-item");
  selectee.$element.removeClass("ui-selected");
  selectee.selected = false;
  this.$weselectee.$weselectee.$element.removeClass("ui-selected");
  this.$weselectee.$weselectee.$element.addClass("ui-unselecting");
  this.$weselectee.$weselectee.unselecting = true;
  this.$weselectee.$weselectee.unselecting = true;
}).each(function() {
  var selectee = $.data(this, "selectable-item");
  selectee.$element.removeClass("ui-selected");
  selectee.selected = false;
  this.$weselectee.$weselectee.$element.removeClass("ui-selected");
  this.$weselectee.$weselectee.$element.addClass("ui-unselecting");
  this.$weselectee.$weselectee.unselecting = true;
  this.$weselectee.$weselectee.unselecting = true;
this._getParentOffset(), relative: this._getRelativeOffset() //This is a relative to absolute position minus the actual position calculation - only used for relative positioned helper
		});

		// Only after we got the offset, we can change the helper’s position to absolute
		// TODO: Still need to figure out a way to make relative sorting possible
		this.helper.css("position", "absolute");

		//Generate the original position
		this.originalPosition = this._generatePosition(event);

		// event.pageX: //Adjust the mouse offset relative to the helper if "cursorAt" is supplied
		// o.cursorAt &
		// this._adjustOffsetFromHelper(o.cursorAt);

		// Cache the former DOM position
		this.domPosition = { prev: this.currentItem.prev()[0], parent: this.currentItem.parent()[0] };

		//If the helper is not the original, hide the original so it’s not playing any role during the drag, won’t occur anything bad this way
		if(this.helper[0] !== this.currentItem[0]) {
			this.currentItem.hide();
		}

		//Create the placeholder
		this._createPlaceholder();

		//Set a containment if given in the options
		this._setContainer();

		//Post "activate" events to possible containers
		if(!noActivation) {
			for (i = this.containers.length - 1; i >= 0; i--)
				this.containers[i]._trigger("activate", event, this._uiHash( this ));
		}

		//Prepare possible droppables
		$.ui.ddmanager.prepareOffsets(this, event);

		this.dragging = true;

		this.helper.addClass("ui-sortable-helper");
		this._mouseDrag(event); //Execute the drag once - this causes the helper not to be visible before getting its correct position
		return true;

	},

	_mouseDrag:
	function(event) {
		var i, item, itemElement, intersection,
			O = this.options,
			scrolled = false;

		// Compute the helpers position
		this.position = this._generatePosition(event);

		// events to possible containers
		// !noActivation )
		// [i = this.containers.length - 1; i >= 0; i--]
		// 
		// Prepare possible droppables
		//Scrolling
		// if(event.pageY - $(document).scrollTop() < O.scrollSensitivity) {
		// scrolled = $(document).scrollTop($(document).scrollTop() + O.scrollSpeed);
		// } else if($(window).width() - (event.pageX - $(document).scrollLeft()) < O.scrollSensitivity) {
		// scrolled = $(document).scrollLeft($(document).scrollLeft() + O.scrollSpeed);
		// }

		//Prepare scrolling
		// if (O.opacity) {
		// this.helper.css("opacity", O.opacity);
		// }

		//Prepare scrolling
		o = this.options;
		noActivation = O.noActivation;
		// Computes the helpers position
		this.position = this._generatePosition(event);

		// Post "activate" events to possible containers
		if(!noActivation) {
			for (i = this.containers.length - 1; i >= 0; i--)
				this.containers[i]._trigger("activate", event, this._uiHash( this ));
		}

		//Prepare possible droppables
		$.ui.ddmanager.prepareOffsets(this, event);

		this.dragging = true;

		this.helper.addClass("ui-sortable-helper");
		this._mouseDrag(event); //Execute the drag once - this causes the helper not to be visible before getting its correct position
		return true;
	};
$(items);\n\n_removeCurrentsFromItems: function() {\n    var list = this.currentItem.find(".data(" +
+ this.widgetName + ")-item");\n    this.items = $.grep(this.items, function(item) {\n        for (var j=0; j <
list.length; j++) {\n            if(list[j] === item[0]) {\n                return false;
            }\n        }\n        return \ntrue;
    });\n\n\n_refreshItems: function(event) {\n    this.items = [];\n    this.containers = [this];\n    \n    this.widgetFullName = $(this.options.items) ? this.options.items.call(this.element[0], event, {\n        item: this.currentItem } ) : $(this.options.items, this.element);\n    this.widgetName = this.widgetFullName;\n    this.widget = $.widget(name, this.widgetName, this.widgetOptions);\n    this.widget._setOptions();\n    this._connectWith = this.widget._connectWith();\n    this._init();\n    \n    this.refreshPositions();\n    this.containers.push(this.widgetName);\n    this._getParentOffset();\n    \n    this.refreshPositions();\n    this.containers.push(this.widgetName);\n    this._getParentOffset();\n    \n    thisrefreshPositions();\n    this.containers.push(this.widgetName);\n    this._getParentOffset();\n    \n    this._createPlaceholder(\n        that || this;\n        var className,\n        o = that.options;\n        if(!o.placeholder || o.placeholder.constructor
        === String) {\n            className = o.placeholder;\n            o.placeholder = {\n                element: function() {\n                    \n\n                    var nodeName = this.currentItem[0].nodeName.toLowerCase(),\n                    element = $("<" + nodeName + ">",\n                    that.document[0])
                    .addClass(className || this.currentItem[0].className+" ui-sortable-placeholder")
                    .removeClass("ui-sortable-helper");
\n                    if ( nodeName === "tr" ) {\n                        this.currentItem.children().each(function() {\n                            $( "<td>&#160;</td>", that.document[0])
                            .attr( "colspan", $(this).attr( "colspan") || 1 )\n                            .appendTo( element );\n                        }\n                    } else if ( nodeName === "img" ) {\n                        element.attr( "src", that.currentItem.attr( "src" ) );\n                        element.attr( "class" )\n                        element.css("visibility", "hidden"\n                    );\n                }\n            }\n        }\n\n        if(!o.forcePlaceholderSize) {\n            return;\n        }\n\n        if(!p.height()) {\n            p.height(this.currentItem.innerHeight() - parseInt(this.currentItem.css("paddingTop")||0, 10) -
            parseInt(this.currentItem.css("paddingBottom")||0, 10));\n        }\n    }\n};
parseInt(that.currentItem.css("paddingRight")||0, 10)); }
				}
				}
		}

		// Create the placeholder
		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

		// Update the size of the placeholder (TODO: Logic to fuzzy, see line 316/317)
	
		// Create the placeholder
		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

		// Update the size of the placeholder (TODO: Logic to fuzzy, see line 316/317)
		noArg:

		// Create the placeholder
		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

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		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

		// Update the size of the placeholder (TODO: Logic to fuzzy, see line 316/317)
	}

		// Create the placeholder
		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

		// Update the size of the placeholder (TODO: Logic to fuzzy, see line 316/317)
		noArg:

		// Create the placeholder
		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

		// Update the size of the placeholder (TODO: Logic to fuzzy, see line 316/317)
	}

		// Create the placeholder
		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

		// Update the size of the placeholder (TODO: Logic to fuzzy, see line 316/317)
		noArg:

		// Create the placeholder
		that.placeholder = $(o.placeholder.element.call(that.element, that.currentItem));

		// Append it after the actual current item
		that.currentItem.after(that.placeholder);

		// Update the size of the placeholder (TODO: Logic to fuzzy, see line 316/317)
	}
Open Source Used In Secure Workload 3.6.1.1 19603

// 4. this lets only the last addition to the timeout stack through
this.counter = this.counter?

// 3. on the local scope, we copy the counter variable, and check in the timeout, if it's still the
setTimeout, that calls refreshPositions

// 2. on the instance, we have a counter variable, that get's higher after
i.item[0].nextSibling);

//Various things done here to improve the performance:

// 1. we create a
i.item[0].parentNode.insertBefore(this.placeholder[0], (this.direction === "down" ? i.item[0] :

function(event, i, a, hardRefresh) {

a ? a[0].appendChild(this.placeholder[0]) :

this.scrollParent.scrollLeft() : scrollIsRootNode ? 0 : scroll.scrollTop() ))

};

_rearrange:

offsetParent's offset without borders (offset + border)

this.offset.parent.left +

Relative offset from element to offset parent

this.offset.relative.left * mod

// The absolute mouse position

this.offset.relative.left * mod +

scrollIsRootNode ? 0 : scroll.scrollLeft() ) * mod

this.offset.relative.left * mod +

Relative offset from element to offset parent

this.offset.parent.left * mod +

// Only for relative positioned nodes:

Relative offset from element to offset parent

this.offset.parent.left * mod -

The offsetParent's offset without borders (offset + border)

this.cssPosition === "fixed"? -this.scrollParent.scrollTop() : (scrollIsRootNode ? 0 : scroll.scrollTop()) ) * mod

the offset parent

// we have to refresh the relative offset during the scroll so there are no
jumps

this.cssPosition === "relative"&

!this.scrollParent[0] != document &

this.offsetParent[0])

} || this.scrollParent[0] != document &

.contains(this.scrollParent[0],

this.offsetParent[0]) ? this.offsetParent : this.scrollParent,

scrollIsRootNode =

/(html|body)/i.test(scroll[0].tagName);

this.cssPosition === "absolute"&& !(this.scrollParent[0] !== document && $.contains(this.scrollParent[0],

{ this.cssPosition === "relative" && !(this.scrollParent[0] !== document &&

.contains(this.scrollParent[0],

this.scrollParent[0]))

this.offsetParent[0])) ? this.offsetParent : this.scrollParent,

scrollIsRootNode =

/(html|body)/i.test(scroll[0].tagName);

this.offsetParent[0])

} || this.scrollParent[0] != document &

.contains(this.scrollParent[0],

this.offsetParent[0]) ? this.offsetParent : this.scrollParent,

scrollIsRootNode =

</html|body>/i).test(scroll[0].tagName); return {

	return {

	top: (pageY - this.offset.click.top) >= containment[3]) ? top : (top - this.offset.click.top >=


	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

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	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


top = this.offsetParent[0].offsetTop;

	var top, left, containment = this.options,


// Only for relative positioned nodes: Relative offset from element to offset parent

+this.offsetParent.top +

The offsetParent's offset without borders (offset + border)

( this.cssPosition ===

\"fixed\"? -this.scrollParent.scrollTop() : (scrollIsRootNode ? 0 : scroll.scrollTop()) )

Click offset (relative to the element)

},

function(event, i, a, hardRefresh) {

i.item[0].appendChild(this.placeholder[0]) ;

i.item[0].parentElement.insertBefore(this.placeholder[0], (this.direction === "down" ? i.item[0] :

i.item[0].nextSibling));

various things done here to improve the performance

1. create a

setTimeout, that calls refreshPositions

2. on the instance, we have a counter variable, that get's higher after
every append

3. on the local scope, we copy the counter variable, and check in the timeout, if it's still the

same

4. this lets only the last addition to the timeout stack through

this.counter = this.counter ?
++this.counter : 1;\n\t\tvar counter = this.counter;\n\n\t\tthis._delay(function() {\n\t\t\tif(counter === this.counter)
{\n\t\t\t\tthis.refreshPositions(!hardRefresh); //Precompute after each DOM insertion, NOT on
mousemove\n\t\t\t}\n\t\t});\n\n\t},\n\n\t_clear: function(event, noPropagation) {\n\n\t\tthis.reverting = false;\n\t\t//
We delay all events that have to be triggered to after the point where the placeholder has been removed and\n\t\t//
everything else normalized again\n\t\tvar i,\n\t\t\tdelayedTriggers = [];\n\n\t\t// We first have to update the dom
position of the actual currentItem\n\t\t// Note: don't do it if the current item is already removed (by a user), or it gets
reappended (see #4088)\n\t\tif(!this._noFinalSort && this.currentItem.parent().length)
{\n\t\t\tthis.placeholder.before(this.currentItem);\n\t\t}\n\t\tthis._noFinalSort = null;\n\n\t\tif(this.helper[0] ===
this.currentItem[0]) {\n\t\t\tfor(i in this._storedCSS) {\n\t\t\t\tif(this._storedCSS[i] === \"auto\" || this._storedCSS[i]
=== \"static\") {\n\t\t\t\t\tthis._storedCSS[i] =
\"\";\n\t\t\t\t}\n\t\t\t}\n\t\t\tthis.currentItem.css(this._storedCSS).removeClass(\"ui-sortable-helper\");\n\t\t} else
{\n\t\t\tthis.currentItem.show();\n\t\t}\n\n\t\tif(this.fromOutside && !noPropagation)
{\n\t\t\tdelayedTriggers.push(function(event) { this._trigger(\"receive\", event, this._uiHash(this.fromOutside));
});\n\t\t}\n\t\tif((this.fromOutside || this.domPosition.prev !== this.currentItem.prev().not(\".ui-sortable-helper\")[0]
|| this.domPosition.parent !== this.currentItem.parent()[0]) && !noPropagation)
{\n\t\t\tdelayedTriggers.push(function(event) { this._trigger(\"update\", event, this._uiHash()); }); //Trigger update
callback if the DOM position has changed\n\t\t}\n\n\t\t// Check if the items Container has Changed and trigger
appropriate\n\t\t// events.\n\t\tif (this !== this.currentContainer) {\n\t\t\tif(!noPropagation)
{\n\t\t\t\tdelayedTriggers.push(function(event) { this._trigger(\"remove\", event, this._uiHash());
});\n\t\t\t\tdelayedTriggers.push((function(c) { return function(event) { c._trigger(\"receive\", event,
this._uiHash(this)); }; }).call(this, this.currentContainer));\n\t\t\t\tdelayedTriggers.push((function(c) { return
function(event) { c._trigger(\"update\", event, this._uiHash(this)); }; }).call(this,
this.currentContainer));\n\t\t\t}\n\t\t}\n\n\n\t\t//Post events to containers\n\t\tfor (i = this.containers.length - 1; i >= 0;
i--){\n\t\t\tif(!noPropagation) {\n\t\t\t\tdelayedTriggers.push((function(c) { return function(event) {
c._trigger(\"deactivate\", event, this._uiHash(this)); }; }).call(this,
this.containers[i]));\n\t\t\t}\n\t\t\tif(this.containers[i].containerCache.over)
{\n\t\t\t\tdelayedTriggers.push((function(c) { return function(event) { c._trigger(\"out\", event, this._uiHash(this)); };
}).call(this, this.containers[i]));\n\t\t\t\tthis.containers[i].containerCache.over = 0;\n\t\t\t}\n\t\t}\n\n\t\t//Do what was
originally in plugins\n\t\tif ( this.storedCursor ) {\n\t\t\tthis.document.find( \"body\" ).css( \"cursor\",
this.storedCursor );\n\t\t\tthis.storedStylesheet.remove();\n\t\t}\n\t\tif(this._storedOpacity)
{\n\t\t\tthis.helper.css(\"opacity\", this._storedOpacity);\n\t\t}\n\t\tif(this._storedZIndex)
{\n\t\t\tthis.helper.css(\"zIndex\", this._storedZIndex === \"auto\" ? \"\" :
this._storedZIndex);\n\t\t}\n\n\t\tthis.dragging = false;\n\t\tif(this.cancelHelperRemoval) {\n\t\t\tif(!noPropagation)
{\n\t\t\t\tthis._trigger(\"beforeStop\", event, this._uiHash());\n\t\t\t\tfor (i=0; i < delayedTriggers.length; i++)
{\n\t\t\t\t\tdelayedTriggers[i].call(this, event);\n\t\t\t\t} //Trigger all delayed events\n\t\t\t\tthis._trigger(\"stop\",
event, this._uiHash());\n\t\t\t}\n\n\t\t\tthis.fromOutside = false;\n\t\t\treturn false;\n\t\t}\n\n\t\tif(!noPropagation)
{\n\t\t\tthis._trigger(\"beforeStop\", event, this._uiHash());\n\t\t}\n\n\t\t//$(this.placeholder[0]).remove(); would have
been the jQuery way - unfortunately, it unbinds ALL events from the original
node!\n\t\tthis.placeholder[0].parentNode.removeChild(this.placeholder[0]);\n\n\t\tif(this.helper[0] !==
this.currentItem[0]) {\n\t\t\tthis.helper.remove();\n\t\t}\n\t\tthis.helper = null;\n\n\t\tif(!noPropagation) {\n\t\t\tfor
(i=0; i < delayedTriggers.length; i++) {\n\t\t\t\tdelayedTriggers[i].call(this, event);\n\t\t\t} //Trigger all delayed
events\n\t\t\tthis._trigger(\"stop\", event, this._uiHash());\n\t\t}\n\n\t\tthis.fromOutside = false;\n\t\treturn
true;\n\n\t},\n\n\t_trigger: function() {\n\t\tif ($.Widget.prototype._trigger.apply(this, arguments) === false)
{\n\t\t\tthis.cancel();\n\t\t}\n\t},\n\n\t_uiHash: function(_inst) {\n\t\tvar inst = _inst || this;\n\t\treturn {\n\t\t\thelper:
inst.helper,\n\t\t\tplaceholder: inst.placeholder || $([]),\n\t\t\tposition: inst.position,\n\t\t\toriginalPosition:
inst.originalPosition,\n\t\t\toffset: inst.positionAbs,\n\t\t\titem: inst.currentItem,\n\t\t\tsender: _inst ? _inst.element :
null\n\t\t};\n\t}\n\n});\n\n})(jQuery);\n\n(function($, undefined) {\n\nvar dataSpace = \"ui-effects-\";\n\n$.effects =
{\n\teffect: {}\n};\n\n/*!\n * jQuery Color Animations v2.1.2\n * https://github.com/jquery/jquery-color\n *\n *

Open Source Used In Secure Workload 3.6.1.1 19604


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http://jquery.org/license

* Date: Wed Jan 16 08:47:09 2013 -0600

(function( jQuery, undefined ){

	var stepHooks = "backgroundColor borderBottomColor borderLeftColor borderRightColor borderTopColor",

	// plusequals test for += 100 -=
	100
	rplusequals = /^\((-+)\)=\s*(\d+\.?\d*)/,

	// a set of RE's that can match strings and generate color
tuples.
	stringParsers = [
	(function( execResult ) { return execResult[ 1 ]; }, "rgba", "hexadecimal"),
	(function( execResult ) { return execResult[ 1 ]; }, "hsla", "hexadecimal"),

	// jQuery.Color()
	color = jQuery.Color = function( color, green, blue, alpha ) {
		return new jQuery.Color.fn.parse( color, green, blue, alpha );
	},

	// colors = jQuery.Color.names,
	colors,

	// local aliases of functions called often
	each = jQuery.each;

// determine rgba support immediately
supportElem.style.cssText = "background-color:rgba(1,1,1,.5)";
support.rgba = supportElem.style.backgroundColor.indexOf( "rgba" ) > -1;

// define

cache name and alpha properties

});
"transparent"?

```javascript
крыт( e ) { _invalidValue//

							backgroundColor :

						
t_default" );

					}

					value =

toRgbaString( )


t_element.style[ hook ] = value


					catch( e )

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

									

						```
```
To display the content as readable text:

```javascript
var requestIndex = 0;

$.widget("ui.autocomplete", {
    version: "1.10.3",
    defaultElement: "<input>",
    options: {
        appendTo: null,
        autoFocus: false,
        delay: 300,
        minLength: 1,
        position: {
            my: "left top",
            at: "left bottom",
            collision: "none"
        },
        source: null,

        change: null,
        close: null,
        focus: null,
        open: null,
        response: null,
        search: null,
        select: null,

        activation: function( event, ui ) {
            var $li = $( event.item ),
                itemValue = $li.data( "ui-autocomplete-itemValue" ),
                $input = $( "input:ui-autocomplete[aria-owns/bower]" ),
                $inputValue = $input.val();

            if ( $inputValue === itemValue ) {
                $input[0].click();
            }
        },

        // callbacks
        beforeSelect: null,
        focus: function( event, ui ) {
            $( this ).toggleClass( "ui-autocomplete-active" );
        },
        select: function( event, ui ) {
            // Do something with the selected item
            $( this ).toggleClass( "ui-autocomplete-active" );
            return false;
        },

        // events
        _activate: function( event, ui ) {
            $( event.target ).val( ui.itemValue );
            $( this ).trigger( "close", [ui.itemValue] );
        },

        _deactivate: function( event, ui ) {
            $( event.target ).val( null );
        },

        _clearSelection: function( event, ui ) {
            $( this ).val( null );
        },

        _focus: function( event, ui ) {
            $( this ).toggleClass( "ui-autocomplete-active" );
        },

        _keyEvent: function( event ) {
            // Handle keyboard events
        },

        _open: function( event, ui ) {
            // Handle opening the autocomplete menu
        },

        _search: function( event, ui ) {
            // Handle search input
        },

        _select: function( event, ui ) {
            // Handle selecting an item
        },

        _source: function( event, ui ) {
            // Handle source update
        }
    }
});
```

This code is part of the jQuery UI library, specifically the `autocomplete` widget. It provides a flexible way to implement an autocomplete feature in web applications. The main features include:

- A default element to attach the widget to.
- Options to customize the behavior, such as `autoFocus`, `delay`, ` minLength`, `position`, `source`, `change`, `close`, and `open` functions.
- Callbacks like `beforeSelect`, `focus`, `select`, `activate`, `deactivate`, `clearSelection`, `focus`, `keyEvent`, `open`, `search`, `select`, and `source`.
- Events like `_activate`, `_deactivate`, `_clearSelection`, `_focus`, `_keyEvent`, `_open`, `_search`, `_select`, and `_source`.

The widget is designed to be highly customizable and can be used in various web applications to enhance user interaction with input fields.
when menu is open and has focus

```
function( event ) { ( this.menu.active ) { return; } 

// when menu is open and has focus
if ( this.menu.active ) {

	// #6055 - Opera still allows the keypress to occur when the menu is open
// which causes forms to submit

	// suppressKeyPressRepeat = true;

	// search timeout should be triggered before the input value is changed

	//抑制KeyPressRepeat = false;

	// replicate some key handlers to allow them to repeat in Firefox and
Opera

	keyCode = $.ui.keyCode;

```

```
switch( event.keyCode ) {

case keyCode.PAGE_UP:
	this._move( "previousPage", event );
	break;

case keyCode.PAGE_DOWN:
	this._move( "nextPage", event );
	break;

case keyCode.UP:
	this._keyEvent( "previous", event );
	break;

case keyCode.DOWN:
	this._keyEvent( "next", event );
	break;

}
```

```
// field.on( "input", function( event ) {
// IE doesn't prevent moving focus even with
// event.preventDefault();

// so we set a flag to know when we should ignore the blur
// event

this.cancelBlur = true;

```

```
this.cancelBlur = true;

var menuElement = this.menu.element[ 0 ];

if ( !$( event.target ).closest( ".ui-menu-item" ).length ) {

	// use value to match what will end up in the input, if it was a key event

	this._value( item.value );

} else {

	// Normally the input is populated with the
we don't cancel future searches
function( event )
{ // cancel
this.cancelSearch = true;
this._clearContent();
this._close();
}

// close the menu
function( event )
{ // don't cancel future searches
this._close();
}

// close the menu
function( event )
{ // this.previous !== this.value()
this._trigger( "close", event );
}

// close the menu
function( event )
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}
\"ui.button\", {\n\tversion: \"1.10.3\",\n\tdefaultElement: \"<button>\",\n\toptions: {\n\t\tdisabled: null,\n\t\ttext:
true,\n\t\tlabel: null,\n\t\ticons: {\n\t\t\tprimary: null,\n\t\t\tsecondary: null\n\t\t}\n\t},\n\t_create: function()
{\n\t\tthis.element.closest( \"form\" )\n\t\t\t.unbind( \"reset\" + this.eventNamespace )\n\t\t\t.bind( \"reset\" +
this.eventNamespace, formResetHandler );\n\n\t\tif ( typeof this.options.disabled !== \"boolean\" )
{\n\t\t\tthis.options.disabled = !!this.element.prop( \"disabled\" );\n\t\t} else {\n\t\t\tthis.element.prop( \"disabled\",
this.options.disabled );\n\t\t}\n\n\t\tthis._determineButtonType();\n\t\tthis.hasTitle = !!this.buttonElement.attr(
\"title\" );\n\n\t\tvar that = this,\n\t\t\toptions = this.options,\n\t\t\ttoggleButton = this.type === \"checkbox\" ||
this.type === \"radio\",\n\t\t\tactiveClass = !toggleButton ? \"ui-state-active\" : \"\",\n\t\t\tfocusClass = \"ui-statefocus\";\n\n\t\tif ( options.label === null ) {\n\t\t\toptions.label = (this.type === \"input\" ? this.buttonElement.val() :
this.buttonElement.html());\n\t\t}\n\n\t\tthis._hoverable( this.buttonElement
);\n\n\t\tthis.buttonElement\n\t\t\t.addClass( baseClasses )\n\t\t\t.attr( \"role\", \"button\" )\n\t\t\t.bind( \"mouseenter\"
+ this.eventNamespace, function() {\n\t\t\t\tif ( options.disabled ) {\n\t\t\t\t\treturn;\n\t\t\t\t}\n\t\t\t\tif ( this ===
lastActive ) {\n\t\t\t\t\t$( this ).addClass( \"ui-state-active\" );\n\t\t\t\t}\n\t\t\t})\n\t\t\t.bind( \"mouseleave\" +
this.eventNamespace, function() {\n\t\t\t\tif ( options.disabled ) {\n\t\t\t\t\treturn;\n\t\t\t\t}\n\t\t\t\t$( this
).removeClass( activeClass );\n\t\t\t})\n\t\t\t.bind( \"click\" + this.eventNamespace, function( event ) {\n\t\t\t\tif (
options.disabled )
{\n\t\t\t\t\tevent.preventDefault();\n\t\t\t\t\tevent.stopImmediatePropagation();\n\t\t\t\t}\n\t\t\t});\n\n\t\tthis.element\n\
t\t\t.bind( \"focus\" + this.eventNamespace, function() {\n\t\t\t\t// no need to check disabled, focus won't be triggered
anyway\n\t\t\t\tthat.buttonElement.addClass( focusClass );\n\t\t\t})\n\t\t\t.bind( \"blur\" + this.eventNamespace,
function() {\n\t\t\t\tthat.buttonElement.removeClass( focusClass );\n\t\t\t});\n\n\t\tif ( toggleButton )
{\n\t\t\tthis.element.bind( \"change\" + this.eventNamespace, function() {\n\t\t\t\tif ( clickDragged )
{\n\t\t\t\t\treturn;\n\t\t\t\t}\n\t\t\t\tthat.refresh();\n\t\t\t});\n\t\t\t// if mouse moves between mousedown and mouseup
(drag) set clickDragged flag\n\t\t\t// prevents issue where button state changes but checkbox/radio checked
state\n\t\t\t// does not in Firefox (see ticket #6970)\n\t\t\tthis.buttonElement\n\t\t\t\t.bind( \"mousedown\" +
this.eventNamespace, function( event ) {\n\t\t\t\t\tif ( options.disabled )
{\n\t\t\t\t\t\treturn;\n\t\t\t\t\t}\n\t\t\t\t\tclickDragged = false;\n\t\t\t\t\tstartXPos = event.pageX;\n\t\t\t\t\tstartYPos =
event.pageY;\n\t\t\t\t})\n\t\t\t\t.bind( \"mouseup\" + this.eventNamespace, function( event ) {\n\t\t\t\t\tif (
options.disabled ) {\n\t\t\t\t\t\treturn;\n\t\t\t\t\t}\n\t\t\t\t\tif ( startXPos !== event.pageX || startYPos !== event.pageY
) {\n\t\t\t\t\t\tclickDragged = true;\n\t\t\t\t\t}\n\t\t\t});\n\t\t}\n\n\t\tif ( this.type === \"checkbox\" )
{\n\t\t\tthis.buttonElement.bind( \"click\" + this.eventNamespace, function() {\n\t\t\t\tif ( options.disabled ||
clickDragged ) {\n\t\t\t\t\treturn false;\n\t\t\t\t}\n\t\t\t});\n\t\t} else if ( this.type === \"radio\" )
{\n\t\t\tthis.buttonElement.bind( \"click\" + this.eventNamespace, function() {\n\t\t\t\tif ( options.disabled ||
clickDragged ) {\n\t\t\t\t\treturn false;\n\t\t\t\t}\n\t\t\t\t$( this ).addClass( \"ui-state-active\"
);\n\t\t\t\tthat.buttonElement.attr( \"aria-pressed\", \"true\" );\n\n\t\t\t\tvar radio = that.element[ 0
];\n\t\t\t\tradioGroup( radio )\n\t\t\t\t\t.not( radio )\n\t\t\t\t\t.map(function() {\n\t\t\t\t\t\treturn $( this ).button(
\"widget\" )[ 0 ];\n\t\t\t\t\t})\n\t\t\t\t\t.removeClass( \"ui-state-active\" )\n\t\t\t\t\t.attr( \"aria-pressed\", \"false\"
);\n\t\t\t});\n\t\t} else {\n\t\t\tthis.buttonElement\n\t\t\t\t.bind( \"mousedown\" + this.eventNamespace, function()
{\n\t\t\t\t\tif ( options.disabled ) {\n\t\t\t\t\t\treturn false;\n\t\t\t\t\t}\n\t\t\t\t\t$( this ).addClass( \"ui-state-active\"
);\n\t\t\t\t\tlastActive = this;\n\t\t\t\t\tthat.document.one( \"mouseup\", function() {\n\t\t\t\t\t\tlastActive =
null;\n\t\t\t\t\t});\n\t\t\t\t})\n\t\t\t\t.bind( \"mouseup\" + this.eventNamespace, function() {\n\t\t\t\t\tif (
options.disabled ) {\n\t\t\t\t\t\treturn false;\n\t\t\t\t\t}\n\t\t\t\t\t$( this ).removeClass( \"ui-state-active\"
);\n\t\t\t\t})\n\t\t\t\t.bind( \"keydown\" + this.eventNamespace, function(event) {\n\t\t\t\t\tif ( options.disabled )
{\n\t\t\t\t\t\treturn false;\n\t\t\t\t\t}\n\t\t\t\t\tif ( event.keyCode === $.ui.keyCode.SPACE || event.keyCode ===
$.ui.keyCode.ENTER ) {\n\t\t\t\t\t\t$( this ).addClass( \"ui-state-active\" );\n\t\t\t\t\t}\n\t\t\t\t})\n\t\t\t\t// see #8559,
we bind to blur here in case the button element loses\n\t\t\t\t// focus between keydown and keyup, it would be left in
an \"active\" state\n\t\t\t\t.bind( \"keyup\" + this.eventNamespace + \" blur\" + this.eventNamespace, function()
{\n\t\t\t\t\t$( this ).removeClass( \"ui-state-active\" );\n\t\t\t\t});\n\n\t\t\tif ( this.buttonElement.is(\"a\") )
{\n\t\t\t\tthis.buttonElement.keyup(function(event) {\n\t\t\t\t\tif ( event.keyCode === $.ui.keyCode.SPACE )

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inst);\n\t\tinput.addClass(this.markerClassName).keydown(this._doKeyDown).\n\t\t\tkeypress(this._doKeyPress).ke
yup(this._doKeyUp);\n\t\tthis._autoSize(inst);\n\t\t$.data(target, PROP_NAME, inst);\n\t\t//If disabled option is
true, disable the datepicker once it has been attached to the input (see ticket #5665)\n\t\tif( inst.settings.disabled )
{\n\t\t\tthis._disableDatepicker( target );\n\t\t}\n\t},\n\n\t/* Make attachments based on settings. */\n\t_attachments:
function(input, inst) {\n\t\tvar showOn, buttonText, buttonImage,\n\t\t\tappendText = this._get(inst,
\"appendText\"),\n\t\t\tisRTL = this._get(inst, \"isRTL\");\n\n\t\tif (inst.append)
{\n\t\t\tinst.append.remove();\n\t\t}\n\t\tif (appendText) {\n\t\t\tinst.append = $(\"<span class='\" +
this._appendClass + \"'>\" + appendText + \"</span>\");\n\t\t\tinput[isRTL ? \"before\" :
\"after\"](inst.append);\n\t\t}\n\n\t\tinput.unbind(\"focus\", this._showDatepicker);\n\n\t\tif (inst.trigger)
{\n\t\t\tinst.trigger.remove();\n\t\t}\n\n\t\tshowOn = this._get(inst, \"showOn\");\n\t\tif (showOn === \"focus\" ||
showOn === \"both\") { // pop-up date picker when in the marked
field\n\t\t\tinput.focus(this._showDatepicker);\n\t\t}\n\t\tif (showOn === \"button\" || showOn === \"both\") { //
pop-up date picker when button clicked\n\t\t\tbuttonText = this._get(inst, \"buttonText\");\n\t\t\tbuttonImage =
this._get(inst, \"buttonImage\");\n\t\t\tinst.trigger = $(this._get(inst, \"buttonImageOnly\")
?\n\t\t\t\t$(\"<img/>\").addClass(this._triggerClass).\n\t\t\t\t\tattr({ src: buttonImage, alt: buttonText, title:
buttonText }) :\n\t\t\t\t$(\"<button
type='button'></button>\").addClass(this._triggerClass).\n\t\t\t\t\thtml(!buttonImage ? buttonText :
$(\"<img/>\").attr(\n\t\t\t\t\t{ src:buttonImage, alt:buttonText, title:buttonText })));\n\t\t\tinput[isRTL ? \"before\" :
\"after\"](inst.trigger);\n\t\t\tinst.trigger.click(function() {\n\t\t\t\tif ($.datepicker._datepickerShowing &&
$.datepicker._lastInput === input[0]) {\n\t\t\t\t\t$.datepicker._hideDatepicker();\n\t\t\t\t} else if
($.datepicker._datepickerShowing && $.datepicker._lastInput !== input[0])
{\n\t\t\t\t\t$.datepicker._hideDatepicker();\n\t\t\t\t\t$.datepicker._showDatepicker(input[0]);\n\t\t\t\t} else
{\n\t\t\t\t\t$.datepicker._showDatepicker(input[0]);\n\t\t\t\t}\n\t\t\t\treturn false;\n\t\t\t});\n\t\t}\n\t},\n\n\t/* Apply the
maximum length for the date format. */\n\t_autoSize: function(inst) {\n\t\tif (this._get(inst, \"autoSize\") &&
!inst.inline) {\n\t\t\tvar findMax, max, maxI, i,\n\t\t\t\tdate = new Date(2009, 12 - 1, 20), // Ensure double
digits\n\t\t\t\tdateFormat = this._get(inst, \"dateFormat\");\n\n\t\t\tif (dateFormat.match(/[DM]/)) {\n\t\t\t\tfindMax =
function(names) {\n\t\t\t\t\tmax = 0;\n\t\t\t\t\tmaxI = 0;\n\t\t\t\t\tfor (i = 0; i < names.length; i++) {\n\t\t\t\t\t\tif
(names[i].length > max) {\n\t\t\t\t\t\t\tmax = names[i].length;\n\t\t\t\t\t\t\tmaxI =
i;\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t\treturn maxI;\n\t\t\t\t};\n\t\t\t\tdate.setMonth(findMax(this._get(inst,
(dateFormat.match(/MM/) ?\n\t\t\t\t\t\"monthNames\" :
\"monthNamesShort\"))));\n\t\t\t\tdate.setDate(findMax(this._get(inst, (dateFormat.match(/DD/)
?\n\t\t\t\t\t\"dayNames\" : \"dayNamesShort\"))) + 20 - date.getDay());\n\t\t\t}\n\t\t\tinst.input.attr(\"size\",
this._formatDate(inst, date).length);\n\t\t}\n\t},\n\n\t/* Attach an inline date picker to a div. */\n\t_inlineDatepicker:
function(target, inst) {\n\t\tvar divSpan = $(target);\n\t\tif (divSpan.hasClass(this.markerClassName))
{\n\t\t\treturn;\n\t\t}\n\t\tdivSpan.addClass(this.markerClassName).append(inst.dpDiv);\n\t\t$.data(target,
PROP_NAME, inst);\n\t\tthis._setDate(inst, this._getDefaultDate(inst),
true);\n\t\tthis._updateDatepicker(inst);\n\t\tthis._updateAlternate(inst);\n\t\t//If disabled option is true, disable the
datepicker before showing it (see ticket #5665)\n\t\tif( inst.settings.disabled ) {\n\t\t\tthis._disableDatepicker( target
);\n\t\t}\n\t\t// Set display:block in place of inst.dpDiv.show() which won't work on disconnected elements\n\t\t//
http://bugs.jqueryui.com/ticket/7552 - A Datepicker created on a detached div has zero height\n\t\tinst.dpDiv.css(
\"display\", \"block\" );\n\t},\n\n\t/* Pop-up the date picker in a \"dialog\" box.\n\t * @param input element ignored\n\t * @param date\tstring or Date - the initial date to display\n\t * @param onSelect function - the
function to call when a date is selected\n\t * @param settings object - update the dialog date picker instance's
settings (anonymous object)\n\t * @param pos int[2] - coordinates for the dialog's position within the screen or\n\t
*\t\t\t\t\tevent - with x/y coordinates or\n\t *\t\t\t\t\tleave empty for default (screen centre)\n\t * @return the manager
object\n\t */\n\t_dialogDatepicker: function(input, date, onSelect, settings, pos) {\n\t\tvar id, browserWidth,
browserHeight, scrollX, scrollY,\n\t\t\tinst = this._dialogInst; // internal instance\n\n\t\tif (!inst) {\n\t\t\tthis.uuid +=
1;\n\t\t\tid = \"dp\" + this.uuid;\n\t\t\tthis._dialogInput = $(\"<input type='text' id='\" + id +\n\t\t\t\t\"' style='position:

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absolute; top: -100px; width: 0px;"/>

```javascript
absolute; top: -100px; width: 0px;'/>
			this._dialogInput.keydown(this._doKeyDown);
			$("body").append(this._dialogInput);
			inst = this._newInst(this._dialogInput, false);
			$.extendRemove(inst.settings, settings || {});
			datepicker = document.createElement('input');
			datepicker.type = 'text';
			datepicker.value = inst.value;
			datepicker.name = inst.html;
			datepicker.id = inst.id;
			datepicker.className = inst.className;
			datepicker.style.cssText = inst.style.cssText;
			datepicker.style.visibility = 'hidden';
			datepicker.style.display = 'block';
			datepicker.style.position = 'absolute';
			datepicker.style.left = (this._pos[0] + 20) + "px";
			datepicker.style.top = this._pos[1] + "px";
			datepicker.setAttribute('readonly', '');
			datepicker.disabled = inst.disabled;
			datepicker.setAttribute('tabindex', -1);
			datepicker.setAttribute('data-temp', 'true');
			datepicker.setAttribute('args', inst._input);
			datepicker.style.width = (inst.width ? inst.width : '100%') + "px";
			datepicker.style.height = (inst.height ? inst.height : 'auto') + "px";
			datepicker.style.border = '1px solid #000';
			datepicker.style.background = 'transparent';
			datepicker.style.outline = '0px';
			datepicker.style.whiteSpace = 'nowrap';
			datepicker.style.cursor = 'text';

```
function(target) {
    var settings, date, minDate, maxDate, inst = this._getInst(target);
    if (arguments.length === 2 && typeof name === 'string') {
        return (name === 'defaults' ? $.extend({}, $.datepicker._defaults) :
        inst ? (name === 'all' ? $.extend({}, inst.settings) :
        this._get(inst, name)) : null);
    }
    settings = name || {};
    if (typeof name === 'string') {
        settings = {};
        settings[name] = value;
    }
    var inst = this._getInst(target);
    if (inst) {
        var date = this._getDateDatepicker(target, true);
        minDate = this._getMinMaxDate(inst, 'min');
        maxDate = this._getMinMaxDate(inst, 'max');
        inst.settings = $.extend(inst.settings, settings);
        if (minDate !== null && settings.dateFormat !== undefined && settings.minDate === undefined) {
            inst.settings.minDate = this._formatDate(inst, minDate);
        }
        if (maxDate !== null && settings.dateFormat !== undefined && settings.maxDate === undefined) {
            inst.settings.maxDate = this._formatDate(inst, maxDate);
        }
        if ('disabled' in settings) {
            if (settings.disabled) {
                this._disableDatepicker(target);
            } else {
                this._enableDatepicker(target);
            }
        }
        this._attachments($(target), inst);
        this._autoSize(inst);
        this._setDate(inst, date);
        this._updateAlternate(inst);
        this._updateDatepicker(inst);
    }
    return (inst ? this._getDate(inst) : null);
}
$.datepicker._get(inst, "beforeShow");
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? false : true);
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? true : false);
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? 1 : 0);
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? 0 : 1);
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? 1 : 0);
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? 0 : 1);
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? 0 : 1);
$.datepicker._get(inst, "beforeShowSettings" == beforeShow ? 0 : 1);
Hide the date picker from view.

```javascript
function(input) {
    var showAnim, duration, postProcess, onClose,
        inst = this._curInst;

    if (!inst || (input && inst !== $.data(input, PROP_NAME))) {
        return;
    }

    if (this._datepickerShowing) {
        showAnim = this._get(inst, "showAnim");
        duration = this._get(inst, "duration");
        postProcess = function() {
            $.datepicker._tidyDialog(inst);
        };

        // DEPRECATED: after BC for 1.8.x $.effects[ showAnim ] is not needed
        $(inst.dpDiv).hide(showAnim, $.datepicker._get(inst, "showOptions"), duration, postProcess); // deprecated
        onClose = this._get(inst, "onClose");

        if (onClose) {
            onClose.apply((inst.input ? inst.input[0] : null), [(inst.input ? inst.input.val() : ""), inst]);
        }

        this._lastInput = null;
        this._inDialog = false;
        this._datepickerShowing = false;
    }

    this._hideDatepicker();
},

/* Adjust one of the date sub-fields. */
function(id, offset, period) {
    var target = $(id),
        inst = this._getInst(target[0]);

    if (this._isDisabledDatepicker(target[0])) {
        return;
    }

    this._adjustInstDate(inst, offset + period, // undo positioning if needed, position is on dialog change
                          position === "M" ? this._get(inst, "showCurrentAtPos") : 0);
    this._updateDatepicker(inst);
},
```

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```javascript
iValue += num[0].length;

getName = function(match, shortNames, longNames){
    var index = -1,
        names = $.map(lookAhead(match) ? longNames : shortNames, function (v, k){
            return [k, v];
        }).sort(function (a, b){
            return -(a[1].length - b[1].length);
        });

    $.each(names, function (i, pair){
        var name = pair[1];
        if (value.substr(iValue, name.length).toLowerCase() === name.toLowerCase()) {
            index = pair[0];
            iValue += name.length;
            return false;
        }
    });

    if (index !== -1)
        return index + 1;
    else
        throw "Unknown name at position \" + iValue + \" in string \" + value.substr(iValue) + \"."
};

checkLiteral = function() {
    if (value.charAt(iValue) !== format.charAt(iFormat)) {
        throw "Unexpected literal at position \" + iValue + \" in string \" + value.substr(iValue) + \"."
    }
    iValue++;
}

for (iFormat = 0; iFormat < format.length; iFormat++) {
    if (literal) {
        if (format.charAt(iFormat) === "'" && !lookAhead("'")) {
            literal = false;
        } else {
            checkLiteral();
        }
    } else {
        switch (format.charAt(iFormat)) {
            case "d":
                day = getNumber("d");
                break;
            case "D":
                getName("D", dayNamesShort, dayNames);
                break;
            case "o":
                doy = getNumber("o");
                break;
            case "m":
                month = getNumber("m");
                break;
            case "M":
                month = getName("M", monthNamesShort, monthNames);
                break;
            case "y":
                year = getNumber("y");
                break;
            case "@":
                date = new Date(getNumber("@"));
                year = date.getFullYear();
                month = date.getMonth() + 1;
                day = date.getDate();
                break;
            case "!":
                date = new Date((getNumber("!")) / 10000);
                year = date.getFullYear();
                month = date.getMonth() + 1;
                day = date.getDate();
                break;
            case "'":
                if (lookAhead("'")) {
                    checkLiteral();
                } else {
                    literal = true;
                }
                break;
            default:
                checkLiteral();
        }
    }
}

if (iValue < value.length){
    extra = value.substr(iValue);
    if (!/^\s+/.test(extra)) {
        throw "Extra/unparsed characters found in date: \" + extra + \"."
    }
}

if (year === -1) {
    year = new Date().getFullYear();
} else if (year < 100) {
    year += new Date().getFullYear() - new Date().getFullYear() % 100 +
        (year <= shortYearCutoff ? 0 : -100);
}

if (doy > -1) {
    month = 1;
    day = doy;
    do {
        dim = this._getDaysInMonth(year, month - 1);
        if (day <= dim)
            break;
        month++;
        day -= dim;
    } while (true);
}

date = this._daylightSavingAdjust(new Date(year, month - 1, day));
if (date.getFullYear() != year || date.getMonth() + 1 != month || date.getDate() != day) {
    throw "Invalid date\"; // E.g. 31/02/00
}
```

The code provides a function to format a date object into a string value. The format can be combinations of the following:

- d - day of month (no leading zero)
- dd - day of month (two digit)
- o - day of year (no leading zeros)
- oo - day of year (three digit)
- D - day name short
- DD - day name long
- m - month of year (no leading zero)
- mm - month of year (two digit)
- M - month name short
- MM - month name long
- y - year (two digit)
- yy - year (four digit)
- @ - Unix timestamp (ms since 01/01/1970)
- "..." - literal text
- * - single quote
- @param format string - the desired format of the date
- @param date Date - the date value to format
- @param settings Object - attributes include:
  - dayNamesShort
  - dayNames
  - monthNamesShort
  - monthNames
  -ISO_8601:ISO_8601
  - RFC_822:RFC_822
  - ISO_8601:ISO_8601
  - RFC_822:RFC_822
  - RFC_1036:RFC_1036
  - RFC_1123:RFC_1123
  - RFC_2822:RFC_2822
  - W3C:W3C
  - Math.floor(1970 / 100)
  - Math.floor(1970 / 400)
if (!date) {
  return "";
}

var iFormat,
  dayNamesShort = (settings ? settings.dayNamesShort : null) || this._defaults.dayNamesShort,
  dayNames = (settings ? settings.dayNames : null) || this._defaults.dayNames,
  monthNamesShort = (settings ? settings.monthNamesShort : null) || this._defaults.monthNamesShort,
  monthNames = (settings ? settings.monthNames : null) || this._defaults.monthNames,
  // Check whether a format character is doubled
  lookAhead = function(match)
  {
    var matches = (iFormat + 1 < format.length && format.charAt(iFormat + 1) === match);
    if (matches) {
      iFormat++;
    }
    return matches;
  },
  // Format a number, with leading zero if necessary
  formatNumber = function(match, value, len) {
    var num = "" + value;
    if (lookAhead(match)) {
      while (num.length < len) {
        num = "0" + num;
      }
    }
    return num;
  },
  // Format a name, short or long as requested
  formatName = function(match, value, shortNames, longNames) {
    return (lookAhead(match) ? longNames[value] : shortNames[value]);
  },
  output = "",
  literal = false;

if (date) {
  for (iFormat = 0; iFormat < format.length; iFormat++) {
    if (literal) {
      if (format.charAt(iFormat) === "'" && !lookAhead("'")) {
        literal = false;
      } else {
        output += format.charAt(iFormat);
      }
    } else {
      switch (format.charAt(iFormat)) {
        case "d":
          output += formatNumber("d", date.getDate(), 2);
          break;
        case "D":
          output += formatName("D", date.getDay(), dayNamesShort, dayNames);
          break;
        case "o":
          output += formatNumber("o", Math.round((new Date(date.getFullYear(), date.getMonth(), date.getDate()).getTime() - new Date(date.getFullYear(), 0, 0).getTime()) / 86400000), 3);
          break;
        case "m":
          output += formatNumber("m", date.getMonth() + 1, 2);
          break;
        case "M":
          return null; // Accept anything
        case "y":
          if (lookAhead("y")) {
            output += "\"\";
          } else {
            output += formatName("y", date.getFullYear());
          }
          break;
        case "@":
          output += date.getTime();
          break;
        case ":":
          output += date.getTime() * 10000 + this._ticksTo1970;
          break;
        case "'":
          if (lookAhead("'")) {
            output += "'";
          } else {
            literal = true;
          }
          break;
        default:
          output += format.charAt(iFormat);
      }
    }
  }
}

/* Extract all possible characters from the date format. */
_possibleChars: function (format) {
  var iFormat,
      chars = "",
      literal = false,
      // Check whether a format character is doubled
      lookAhead = function(match)
      {
        var matches = (iFormat + 1 < format.length && format.charAt(iFormat + 1) === match);
        if (matches) {
          iFormat++;
        }
        return matches;
      },
      for (iFormat = 0; iFormat < format.length; iFormat++) {
        if (literal) {
          if (format.charAt(iFormat) === "'" && !lookAhead("'")) {
            literal = false;
          } else {
            chars += format.charAt(iFormat);
          }
        } else {
          switch (format.charAt(iFormat)) {
            case "d": case "m": case "y": case "@":
              chars += "0123456789";
              break;
            case "D": case "M":
              return null; // Accept anything
            case "'":
              if (lookAhead("'")) {
                chars += "'";
              } else {
                literal = true;
              }
              break;
            default:
              chars += format.charAt(iFormat);
          }
        }
      }
    return chars;
  },

  /* Get a setting value, defaulting if necessary. */
  _get: function(inst, name) {
    return inst.settings[name] !== undefined ? inst.settings[name] : this._defaults[name];
  },

  /* Parse existing date and initialise date picker. */
  _setDateFromField: function(inst, noDefault) {
    if (inst.input.val() === inst.lastVal) {
      return;
    }

    var dateFormat = this._get(inst, "dateFormat"),
        dates = inst.lastVal = inst.input ? inst.input.val() : null,
        defaultDate = this._getDefaultDate(inst),
        date = defaultDate,
        settings = this._getFormatConfig(inst);

    try {
      date = this.parseDate(dateFormat, dates, settings) || defaultDate;
    } catch (event) {
      dates = (noDefault ? "" : dates);
    }
    inst.selectedDay = date.getDate();
    inst.drawMonth = inst.selectedMonth = date.getMonth();
    inst.drawYear = inst.selectedYear = date.getFullYear();
    inst.currentDay = (dates ?...
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date.getDate() : 0);\n\t\tinst.currentMonth = (dates ? date.getMonth() : 0);\n\t\tinst.currentYear = (dates ?
date.getFullYear() : 0);\n\t\tthis._adjustInstDate(inst);\n\t\t// Retrieve the default date shown on opening.
*\n\t\tgetDefaultValue: function(inst) {\n\t\t\tretur...
Create HTML content for the date picker based on the current state.
var date = new Date();

function (inst, date) {
    var minDate = this._getMinDateDate(inst, 'min'),
        maxDate = this._getMaxDateDate(inst, 'max'),
        newDate = (minDate && date < minDate ? minDate : date);
    return (maxDate && newDate > maxDate ? maxDate : newDate);
}

var minMonth = this._getMinMaxMonth(inst, 'min'),
    maxMonth = this._getMinMaxMonth(inst, 'max'),
    newMonth = (minMonth && date < minMonth ? minMonth : date);
return (maxMonth && newMonth > maxMonth ? maxMonth : newMonth);

var onChange = this._get(inst, 'onChangeMonthYear');
if (onChange) {
    onChange.apply((inst.input ? inst.input[0] : null),
                    [inst.selectedYear, inst.selectedMonth + 1, inst]);
}

var minYear = this._getMinMaxYear(inst, 'min'),
    maxYear = this._getMinMaxYear(inst, 'max'),
    newYear = (minYear && date < minYear ? minYear : date);
return (maxYear && newYear > maxYear ? maxYear : newYear);

var date = this._daylightSavingAdjust(new Date(date.getFullYear(), date.getMonth(), date.getDate()));
return this._isInRange(inst, date);
"ui-dialog-content ui-widget-content")
			.css( this.originalCss )
			// Without detaching first, the following
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
closeOpen: function( event ) {
						return this.isOpen || this.trigger( "beforeClose", event ) === false ;
						this._isOpen = false ;
					// detach overlay first
						this._destroyOverlay();
						this.detach();
						this.stop( true, true ).remove();
				}

					this.stop( true, true ).remove();

					if ( this.originalTitle ) {
						his.element.attr( "title", this.originalTitle );
					}

					this._position();

					return this.uiDialog;

					this._disable();

					// Hiding a focused element doesn't trigger blur in

					// In case we have nothing to focus on, explicitly blur the active element

					// https://bugs.webkit.org/show_bug.cgi?id=47182

					// So we check again later in this._delay( checkFocus )

					// The dialog itself hasFocus = this.element.find( "[autofocus]" ).length

					// 1. First element inside the dialog matching [autofocus]

					// 2. Tabbable element inside the buttonpane

					// 4. The close button

					// 5. The dialog itself

					// We assume that any
existing aria-describedby attribute means that the dialog content is marked up properly otherwise we brute force the content as the description.

```javascript
$(
  this.element.find( ".aria-describedby" )
).length

this.element
  .uniqueId()
  .attr("id")
  .attr("aria-describedby")

var
  uiDialogTitle = $(
    "div").attr("id")

  .dialogTitlebar

  .toggleClass( "ui-dialog-titlebar ui-widget-header ui-corner-all ui-helper-clearfix" )

  .prependTo( this.uiDialog )

this._on( this.uiDialogTitlebar, {
  mousedown: function( event ) {
    // Don't prevent click on close button (#8838)
    $( event.target ).closest( ".ui-dialog-titlebar-close" )
      .click.preventDefault();
    // Focusing a dialog that is partially scrolled out of view causes the browser to scroll it into view, preventing the click event from triggering ( $( event.target ).closest( ".ui-dialog-titlebar-close" ) )
  }
}

this.uiDialogTitlebar = $(
  "div"
)
  .addClass( "ui-dialog-titlebar ui-widget-header ui-corner-all ui-helper-clearfix" )
  .appendTo( this.uiDialog );

this.uiDialogTitlebarClose = $(
  "button"
)
  .button({
    label: this.options.closeText,
    icons: {
      primary: "ui-icon-closethick"
    },
    text: false
  })
  .addClass( "ui-dialog-titlebar-close" )
  .appendTo( this.uiDialogTitlebarClose );

this.uiDialogTitle = $(
  "span"
)
  .uniqueId()
  .addClass( "ui-dialog-title" )
  .appendTo( this.uiDialogTitlebar );

this._title( this.uiDialogTitle );
```

```javascript
$(
  this.uiDialogButtonPane
)
  .addClass( "ui-dialog-buttonpane ui-widget-content ui-helper-clearfix" )

this.uiButtonSet = $(
  "div"
)
  .addClass( "ui-dialog-buttonset" )
  .appendTo( this.uiDialogButtonPane );

this._createButtons();
```
Open Source Used In Secure Workload 3.6.1.1 19640

```javascript
// Create element
var el = $( this ),
	props = [{
	// Position
	position: "top", "bottom", "left", "right", "height", "width" },
	mode = $.effects.setMode( el, o.mode || "hide" ),
	direction = o.direction || "up",
	vertical = rvertical.test( direction ),
	ref = vertical ? "right" : "top", rpositivemotion = /up|left|vertical|horizontal/,
	typoAt = rpositivemotion.test( direction ),
	typo = (typoAt === "up" || typoAt === "left") ? 1 : -1,
	typoPosition = { my: typoAt[i] + (offset[i] < 0 ? offset[i] : "+" + offset[i]) + " " +
						height: iframe.outerHeight(),
						width: iframe.outerWidth(),
						top: iframe.offset().top,
						left: iframe.offset().left };

// Get the actual offset in the position plugin
	isVisible = this.uiDialog.is( ":visible" );
	if ( !isVisible ) {
					return;
					return;}

					$\text{if ( this.options.modal )} \{ \$\text{return}(); \}$
```

The code snippet appears to be a JavaScript function that includes manipulation of elements and properties, possibly related to animations or transitions, involving methods such as `$.effects.save`, `$.effects.restore`, and `$.effects.animate`. The context suggests it is part of a larger framework, possibly `$.effects`, which is being used to control the display and positioning of elements on the page.
Open Source Used In Secure Workload 3.6.1.1 19641
function( o, done ) {
    var elem = $( this ),
        mode = $.effects.setMode( elem, o.mode || "show" ),
        show = $.effects.save( elem, props );

    if (mode === "hide") {
        elem.hide();
        $.effects.restore( elem, props );
    } else {
        elem.show();
        $.effects.save( elem, props );
    }
}

$.effects.restore = function( el, props ) {
    var eprops = $.effects.restore( el, props );
    $.effects.removeWrapper( el );
    $.effects.done( el );
    $( el ).jQuery();
    $.effects.restore( el, props );

    var o = $.effects.restore( el, props ) || ( (jQuery) ? $( el ).jQuery() : {} ),
        mode = $.effects.setMode( el, o.mode || "show" ),
        show = $.effects.save( elem, animation = {
            duration: o.duration || 500,
            easing: o.easing || "swing",
            animation: function( o, done ) {
                var elem = $( this ),
                    props = $.effects.restore( elem, o.props );

                if (mode === "hide") {
                    elem.hide();
                    $.effects.restore( elem, props );
                } else {
                    elem.show();
                    $.effects.save( elem, props );
                }
            }
        });

    return eprops;
}

$.effects.restore = function( el, props ) {
    var eprops = $.effects.restore( el, props );
    $.effects.removeWrapper( el );
    $.effects.done( el );
    $( el ).jQuery();
    $.effects.restore( el, props );

    var o = $.effects.restore( el, props ) || ( (jQuery) ? $( el ).jQuery() : {} ),
        mode = $.effects.setMode( el, o.mode || "show" ),
        show = $.effects.save( elem, animation = {
            duration: o.duration || 500,
            easing: o.easing || "swing",
            animation: function( o, done ) {
                var elem = $( this ),
                    props = $.effects.restore( elem, o.props );

                if (mode === "hide") {
                    elem.hide();
                    $.effects.restore( elem, props );
                } else {
                    elem.show();
                    $.effects.save( elem, props );
                }
            }
        });

    return eprops;
}

$.effects.restore = function( el, props ) {
    var eprops = $.effects.restore( el, props );
    $.effects.removeWrapper( el );
    $.effects.done( el );
    $( el ).jQuery();
    $.effects.restore( el, props );

    var o = $.effects.restore( el, props ) || ( (jQuery) ? $( el ).jQuery() : {} ),
        mode = $.effects.setMode( el, o.mode || "show" ),
        show = $.effects.save( elem, animation = {
            duration: o.duration || 500,
            easing: o.easing || "swing",
            animation: function( o, done ) {
                var elem = $( this ),
                    props = $.effects.restore( elem, o.props );

                if (mode === "hide") {
                    elem.hide();
                    $.effects.restore( elem, props );
                } else {
                    elem.show();
                    $.effects.save( elem, props );
                }
            }
        });

    return eprops;
since it is no longer visible.

```
if ( this.active && this.active.parents( ".ui-menu" ).length === 1 ) {
    // Clear timeout (this timer) and unbind 'mousecenter' from the menu.
    this.mousedown = function( event ) {
        this.active = $( event.currentTarget );
        // Remove ui-state-active class from siblings of the newly focused menu item
        to avoid a jump caused by adjacent elements both having a class with a
        border=siblings().children( ".ui-state-active" ).removeClass( "ui-state-active" );
        this.focus( event, target );
    },
    "mouseenter .ui-menu-item":
    function( event ) {
        if ( this.active && this.active.parents( ".ui-menu" ).length === 1 ) {
            clearTimeout( this.timer );
        }
    },
    "mouseenter .ui-menu":
    "collapseAll",
    "mouseleave .ui-menu-item":
    function( event ) {
        var target = $( event.currentTarget );
        // Remove ui-state-active class from siblings
        // of the newly focused menu item
        target.siblings().children( ".ui-state-active" ).removeClass( "ui-state-active" );
        this.focus( event, target );
    },
    "mouseleave .ui-menu":
    "collapseAll",
    "focus": function( event, keepActiveItem ) {
        // If there's already an active item, keep it active
        // If not, activate the first item
        var item = this.active || this.element.children( ".ui-menu-item" ).eq( 0 );
        // KeepActiveItem
        if ( !keepActiveItem ) {
            this.focus( event, item );
        }
    },
    "blur": function( event ) {
        // If there's an active item, keep it active
        // If not, activate the first item
        var item = this.active || this.element.children( ".ui-menu-item" ).eq( 0 );
        if ( !$.contains( this.element[0], this.document[0].activeElement ) ) {
            this.collapseAll( event );
        }
    },
    "keydown": "_keydown"
}

this.refresh();

// Clicks outside of a menu collapse any open menus
this._on( this.document, {
    click: function( event ) {
        if ( !$( event.target ).closest( ".ui-menu" ).length ) {
            this.collapseAll( event );
        }
        // Reset the mouseHandled flag
        this.mouseHandled = false;
    }
});

// Destroy (sub)menus
this.element
    .removeAttr( "aria-activedescendant" )
    .addBack()
    .removeClass( "ui-menu ui-widget ui-widget-content ui-corner-all ui-menu-icons" )
    .removeAttr( "role" )
    .removeAttr( "aria-labelledby" )
    .removeAttr( "aria-expanded" )
    .removeAttr( "aria-disabled" )
    .removeUniqueId()
    .show();

// Destroy menu items
this.element.find( ".ui-menu-item" )
    .removeClass( "ui-menu-item" )
    .removeAttr( "role" )
    .removeAttr( "aria-disabled" )
    .children( "a" )
    .removeUniqueId()
    .removeClass( "ui-corner-all ui-state-hover" )
    .removeAttr( "tabIndex" )
    .removeAttr( "aria-haspopup" )
    .children().each( function() {
        var elem = $( this );
        if ( elem.data( "ui-menu-submenu-carat" ) ) {
            elem.remove();
        }
    });

// Destroy menu dividers
this.element.find( ".ui-menu-divider" ).removeClass( "ui-menu-divider ui-widget-content" );
```

---

Open Source Used In Secure Workload 3.6.1.1 19646
Open Source Used In Secure Workload 3.6.1.1

```javascript
function( event ) {
  if ( this.active.is( ".ui-state-disabled" ) ) {
    return;
  }

  var item = this.active.children( "a:disabled, a:has(content).ui-state-disabled" );
  length = 1 + this.active.parent( "li" ).contents().filter( ">a[href]" ).length;

  this.timer = this._delay(function() {
    this._close();
    this._open( item );
  }, this.delay);

  if ( preventDefault ) {
    event.preventDefault();
  }
}
```

```javascript
function( event ) {
  if ( !this.active.children( "a:disabled, a:has(content).ui-state-disabled" ).length ) {
    return;
  }

  var item = this.active.children( "a:disabled, a:has(content).ui-state-disabled" );
  length = 1 + this.active.parent( "li" ).contents().filter( ">a[href]" ).length;

  this.timer = this._delay(function() {
    this._close();
    this._open( item );
  }, this.delay);

  if ( preventDefault ) {
    event.preventDefault();
  }
}
```

```javascript
function( event ) {
  if ( !this.active.children( "a:disabled, a:has(content).ui-state-disabled" ).length ) {
    return;
  }

  var item = this.active.children( "a:disabled, a:has(content).ui-state-disabled" );
  length = 1 + this.active.parent( "li" ).contents().filter( ">a[href]" ).length;

  this.timer = this._delay(function() {
    this._close();
    this._open( item );
  }, this.delay);

  if ( preventDefault ) {
    event.preventDefault();
  }
}
```
Open Source Used In Secure Workload 3.6.1.1

19648
$.fn.position;\n\nfunction getOffsets( offsets, width, height ) {\n\treturn [\n\t\tparseFloat( offsets[ 0 ] ) * (
100 : 1 )\n\t];\n}\n\nfunction parseCss( element, property ) {\n\treturn parseInt( $.css( element, property ), 10 ) ||
0;\n}\n\nfunction getDimensions( elem ) {\n\tvar raw = elem[0];\n\tif ( raw.nodeType === 9 ) {\n\t\treturn
{\n\t\t\twidth: elem.width(),\n\t\t\theight: elem.height(),\n\t\t\toffset: { top: 0, left: 0 }\n\t\t};\n\t}\n\tif ( $.isWindow(
raw ) ) {\n\t\treturn {\n\t\t\twidth: elem.width(),\n\t\t\theight: elem.height(),\n\t\t\toffset: { top: elem.scrollTop(), left:
elem.scrollLeft() }\n\t\t};\n\t}\n\tif ( raw.preventDefault ) {\n\t\treturn {\n\t\t\twidth: 0,\n\t\t\theight: 0,\n\t\t\toffset: {
top: raw.pageY, left: raw.pageX }\n\t\t};\n\t}\n\treturn {\n\t\twidth: elem.outerWidth(),\n\t\theight:
elem.outerHeight(),\n\t\toffset: elem.offset()\n\t};\n}\n\n$.position = {\n\tscrollbarWidth: function() {\n\t\tif (
cachedScrollbarWidth !== undefined ) {\n\t\t\treturn cachedScrollbarWidth;\n\t\t}\n\t\tvar w1, w2,\n\t\t\tdiv = $(
\"<div style='display:block;width:50px;height:50px;overflow:hidden;'><div
style='height:100px;width:auto;'></div></div>\" ),\n\t\t\tinnerDiv = div.children()[0];\n\n\t\t$( \"body\" ).append(
div );\n\t\tw1 = innerDiv.offsetWidth;\n\t\tdiv.css( \"overflow\", \"scroll\" );\n\n\t\tw2 =
innerDiv.offsetWidth;\n\n\t\tif ( w1 === w2 ) {\n\t\t\tw2 =
div[0].clientWidth;\n\t\t}\n\n\t\tdiv.remove();\n\n\t\treturn (cachedScrollbarWidth = w1 - w2);\n\t},\n\tgetScrollInfo:
function( within ) {\n\t\tvar overflowX = within.isWindow ? \"\" : within.element.css( \"overflow-x\"
),\n\t\t\toverflowY = within.isWindow ? \"\" : within.element.css( \"overflow-y\" ),\n\t\t\thasOverflowX =
overflowX === \"scroll\" ||\n\t\t\t\t( overflowX === \"auto\" && within.width < within.element[0].scrollWidth
),\n\t\t\thasOverflowY = overflowY === \"scroll\" ||\n\t\t\t\t( overflowY === \"auto\" && within.height <
within.element[0].scrollHeight );\n\t\treturn {\n\t\t\twidth: hasOverflowY ? $.position.scrollbarWidth() :
0,\n\t\t\theight: hasOverflowX ? $.position.scrollbarWidth() : 0\n\t\t};\n\t},\n\tgetWithinInfo: function( element )
{\n\t\tvar withinElement = $( element || window ),\n\t\t\tisWindow = $.isWindow( withinElement[0] );\n\t\treturn
{\n\t\t\telement: withinElement,\n\t\t\tisWindow: isWindow,\n\t\t\toffset: withinElement.offset() || { left: 0, top: 0
},\n\t\t\tscrollLeft: withinElement.scrollLeft(),\n\t\t\tscrollTop: withinElement.scrollTop(),\n\t\t\twidth: isWindow ?
withinElement.width() : withinElement.outerWidth(),\n\t\t\theight: isWindow ? withinElement.height() :
withinElement.outerHeight()\n\t\t};\n\t}\n};\n\n$.fn.position = function( options ) {\n\tif ( !options || !options.of )
{\n\t\treturn _position.apply( this, arguments );\n\t}\n\n\t// make a copy, we don't want to modify
arguments\n\toptions = $.extend( {}, options );\n\n\tvar atOffset, targetWidth, targetHeight, targetOffset,
basePosition, dimensions,\n\t\ttarget = $( options.of ),\n\t\twithin = $.position.getWithinInfo( options.within
),\n\t\tscrollInfo = $.position.getScrollInfo( within ),\n\t\tcollision = ( options.collision || \"flip\" ).split( \" \"
),\n\t\toffsets = {};\n\n\tdimensions = getDimensions( target );\n\tif ( target[0].preventDefault ) {\n\t\t// force left top
to allow flipping\n\t\toptions.at = \"left top\";\n\t}\n\ttargetWidth = dimensions.width;\n\ttargetHeight =
dimensions.height;\n\ttargetOffset = dimensions.offset;\n\t// clone to reuse original targetOffset later\n\tbasePosition
= $.extend( {}, targetOffset );\n\n\t// force my and at to have valid horizontal and vertical positions\n\t// if a value is
missing or invalid, it will be converted to center\n\t$.each( [ \"my\", \"at\" ], function() {\n\t\tvar pos = ( options[ this
] || \"\" ).split( \" \" ),\n\t\t\thorizontalOffset,\n\t\t\tverticalOffset;\n\n\t\tif ( pos.length === 1) {\n\t\t\tpos =
rhorizontal.test( pos[ 0 ] ) ?\n\t\t\t\tpos.concat( [ \"center\" ] ) :\n\t\t\t\trvertical.test( pos[ 0 ] ) ?\n\t\t\t\t\t[ \"center\"
].concat( pos ) :\n\t\t\t\t\t[ \"center\", \"center\" ];\n\t\t}\n\t\tpos[ 0 ] = rhorizontal.test( pos[ 0 ] ) ? pos[ 0 ] :
\"center\";\n\t\tpos[ 1 ] = rvertical.test( pos[ 1 ] ) ? pos[ 1 ] : \"center\";\n\n\t\t// calculate offsets\n\t\thorizontalOffset
= roffset.exec( pos[ 0 ] );\n\t\tverticalOffset = roffset.exec( pos[ 1 ] );\n\t\toffsets[ this ] = [\n\t\t\thorizontalOffset ?
horizontalOffset[ 0 ] : 0,\n\t\t\tverticalOffset ? verticalOffset[ 0 ] : 0\n\t\t];\n\n\t\t// reduce to just the positions
without the offsets\n\t\toptions[ this ] = [\n\t\t\trposition.exec( pos[ 0 ] )[ 0 ],\n\t\t\trposition.exec( pos[ 1 ] )[ 0
]\n\t\t];\n\t});\n\n\t// normalize collision option\n\tif ( collision.length === 1 ) {\n\t\tcollision[ 1 ] = collision[ 0
];\n\t}\n\n\tif ( options.at[ 0 ] === \"right\" ) {\n\t\tbasePosition.left += targetWidth;\n\t} else if ( options.at[ 0 ] ===
\"center\" ) {\n\t\tbasePosition.left += targetWidth / 2;\n\t}\n\n\tif ( options.at[ 1 ] === \"bottom\" )
{\n\t\tbasePosition.top += targetHeight;\n\t} else if ( options.at[ 1 ] === \"center\" ) {\n\t\tbasePosition.top +=
targetHeight / 2;\n\t}\n\n\tatOffset = getOffsets( offsets.at, targetWidth, targetHeight );\n\tbasePosition.left +=
atOffset[ 0 ];\n\tbasePosition.top += atOffset[ 1 ];\n\n\treturn this.each(function() {\n\t\tvar collisionPosition,

Open Source Used In Secure Workload 3.6.1.1 19649


withinOffset - collisionPosTop,\n\t\t\t\toverBottom = collisionPosTop + data.collisionHeight - outerHeight withinOffset,\n\t\t\t\tnewOverBottom;\n\n\t\t\t// element is taller than within\n\t\t\tif ( data.collisionHeight >
outerHeight ) {\n\t\t\t\t// element is initially over the top of within\n\t\t\t\tif ( overTop > 0 && overBottom <= 0 )
{\n\t\t\t\t\tnewOverBottom = position.top + overTop + data.collisionHeight - outerHeight withinOffset;\n\t\t\t\t\tposition.top += overTop - newOverBottom;\n\t\t\t\t// element is initially over bottom of
within\n\t\t\t\t} else if ( overBottom > 0 && overTop <= 0 ) {\n\t\t\t\t\tposition.top = withinOffset;\n\t\t\t\t// element
is initially over both top and bottom of within\n\t\t\t\t} else {\n\t\t\t\t\tif ( overTop > overBottom )
{\n\t\t\t\t\t\tposition.top = withinOffset + outerHeight - data.collisionHeight;\n\t\t\t\t\t} else {\n\t\t\t\t\t\tposition.top =
withinOffset;\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t// too far up -> align with top\n\t\t\t} else if ( overTop > 0 )
{\n\t\t\t\tposition.top += overTop;\n\t\t\t// too far down -> align with bottom edge\n\t\t\t} else if ( overBottom > 0 )
{\n\t\t\t\tposition.top -= overBottom;\n\t\t\t// adjust based on position and margin\n\t\t\t} else {\n\t\t\t\tposition.top =
max( position.top - collisionPosTop, position.top );\n\t\t\t}\n\t\t}\n\t},\n\tflip: {\n\t\tleft: function( position, data )
{\n\t\t\tvar within = data.within,\n\t\t\t\twithinOffset = within.offset.left + within.scrollLeft,\n\t\t\t\touterWidth =
within.width,\n\t\t\t\toffsetLeft = within.isWindow ? within.scrollLeft : within.offset.left,\n\t\t\t\tcollisionPosLeft =
position.left - data.collisionPosition.marginLeft,\n\t\t\t\toverLeft = collisionPosLeft - offsetLeft,\n\t\t\t\toverRight =
collisionPosLeft + data.collisionWidth - outerWidth - offsetLeft,\n\t\t\t\tmyOffset = data.my[ 0 ] === \"left\"
?\n\t\t\t\t\t-data.elemWidth :\n\t\t\t\t\tdata.my[ 0 ] === \"right\" ?\n\t\t\t\t\t\tdata.elemWidth
:\n\t\t\t\t\t\t0,\n\t\t\t\tatOffset = data.at[ 0 ] === \"left\" ?\n\t\t\t\t\tdata.targetWidth :\n\t\t\t\t\tdata.at[ 0 ] === \"right\"
?\n\t\t\t\t\t\t-data.targetWidth :\n\t\t\t\t\t\t0,\n\t\t\t\toffset = -2 * data.offset[ 0
],\n\t\t\t\tnewOverRight,\n\t\t\t\tnewOverLeft;\n\n\t\t\tif ( overLeft < 0 ) {\n\t\t\t\tnewOverRight = position.left +
myOffset + atOffset + offset + data.collisionWidth - outerWidth - withinOffset;\n\t\t\t\tif ( newOverRight < 0 ||
newOverRight < abs( overLeft ) ) {\n\t\t\t\t\tposition.left += myOffset + atOffset + offset;\n\t\t\t\t}\n\t\t\t}\n\t\t\telse
if ( overRight > 0 ) {\n\t\t\t\tnewOverLeft = position.left - data.collisionPosition.marginLeft + myOffset + atOffset +
offset - offsetLeft;\n\t\t\t\tif ( newOverLeft > 0 || abs( newOverLeft ) < overRight ) {\n\t\t\t\t\tposition.left +=
myOffset + atOffset + offset;\n\t\t\t\t}\n\t\t\t}\n\t\t},\n\t\ttop: function( position, data ) {\n\t\t\tvar within =
data.within,\n\t\t\t\twithinOffset = within.offset.top + within.scrollTop,\n\t\t\t\touterHeight =
within.height,\n\t\t\t\toffsetTop = within.isWindow ? within.scrollTop : within.offset.top,\n\t\t\t\tcollisionPosTop =
position.top - data.collisionPosition.marginTop,\n\t\t\t\toverTop = collisionPosTop - offsetTop,\n\t\t\t\toverBottom =
collisionPosTop + data.collisionHeight - outerHeight - offsetTop,\n\t\t\t\ttop = data.my[ 1 ] ===
\"top\",\n\t\t\t\tmyOffset = top ?\n\t\t\t\t\t-data.elemHeight :\n\t\t\t\t\tdata.my[ 1 ] === \"bottom\"
?\n\t\t\t\t\t\tdata.elemHeight :\n\t\t\t\t\t\t0,\n\t\t\t\tatOffset = data.at[ 1 ] === \"top\" ?\n\t\t\t\t\tdata.targetHeight
:\n\t\t\t\t\tdata.at[ 1 ] === \"bottom\" ?\n\t\t\t\t\t\t-data.targetHeight :\n\t\t\t\t\t\t0,\n\t\t\t\toffset = -2 * data.offset[ 1
],\n\t\t\t\tnewOverTop,\n\t\t\t\tnewOverBottom;\n\t\t\tif ( overTop < 0 ) {\n\t\t\t\tnewOverBottom = position.top +
myOffset + atOffset + offset + data.collisionHeight - outerHeight - withinOffset;\n\t\t\t\tif ( ( position.top +
myOffset + atOffset + offset) > overTop && ( newOverBottom < 0 || newOverBottom < abs( overTop ) ) )
{\n\t\t\t\t\tposition.top += myOffset + atOffset + offset;\n\t\t\t\t}\n\t\t\t}\n\t\t\telse if ( overBottom > 0 )
{\n\t\t\t\tnewOverTop = position.top - data.collisionPosition.marginTop + myOffset + atOffset + offset offsetTop;\n\t\t\t\tif ( ( position.top + myOffset + atOffset + offset) > overBottom && ( newOverTop > 0 || abs(
newOverTop ) < overBottom ) ) {\n\t\t\t\t\tposition.top += myOffset + atOffset +
offset;\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t},\n\tflipfit: {\n\t\tleft: function() {\n\t\t\t$.ui.position.flip.left.apply( this, arguments
);\n\t\t\t$.ui.position.fit.left.apply( this, arguments );\n\t\t},\n\t\ttop: function() {\n\t\t\t$.ui.position.flip.top.apply(
this, arguments );\n\t\t\t$.ui.position.fit.top.apply( this, arguments );\n\t\t}\n\t}\n};\n\n// fraction support
test\n(function () {\n\tvar testElement, testElementParent, testElementStyle, offsetLeft, i,\n\t\tbody =
document.getElementsByTagName( \"body\" )[ 0 ],\n\t\tdiv = document.createElement( \"div\" );\n\n\t//Create a
\"fake body\" for testing based on method used in jQuery.support\n\ttestElement = document.createElement( body ?
\"div\" : \"body\" );\n\ttestElementStyle = {\n\t\tvisibility: \"hidden\",\n\t\twidth: 0,\n\t\theight: 0,\n\t\tborder:
0,\n\t\tmargin: 0,\n\t\tbackground: \"none\"\n\t};\n\tif ( body ) {\n\t\t$.extend( testElementStyle, {\n\t\t\tposition:
\"absolute\",\n\t\t\tleft: \"-1000px\",\n\t\t\ttop: \"-1000px\"\n\t\t});\n\t}\n\tfor ( i in testElementStyle )

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```javascript
var testElement = document.getElementById('testElement');
var testElementParent = testElement.parentNode;

for (var i = 0; i < testElement.children.length; i++) {
  testElement.style[i] = testElement.style[i] + ' Padding: 10 10 10 10;';
}

testElementParent.insertBefore(testElement, testElementParent.firstChild);

testElementParent.removeChild(testElement);
}```
step,

```
				index = $(event.target).data("ui-slider-handle-index");

				switch (event.keyCode)
{`
				case $.ui.keyCode.HOME:
				case $.ui.keyCode.END:
				case $.ui.keyCode.PAGE_UP:
				case $.ui.keyCode.PAGE_DOWN:
				case $.ui.keyCode.UP:
				case $.ui.keyCode.RIGHT:
				case $.ui.keyCode.DOWN:
				case $.ui.keyCode.LEFT:
					event.preventDefault();
					if (!this._keySliding) {
						this._keySliding = true;
						$(event.target).addClass("ui-state-active");
						allowed = this._start(event, index);
					}

				case $.ui.keyCode.ENTER:
					$(event.target).addClass("ui-state-active");
					allowed = this._start(event, index);
					if (!allowed) {
						event.preventDefault();
					}

				if (this.options.value && this.options.values.length) {
					curVal = newVal = this.values(index);
					}

				switch (event.keyCode)
{`
				case $.ui.keyCode.HOME:
					newVal = this._valueMin();
					break;
				case $.ui.keyCode.END:
					newVal = this._valueMax();
					break;
				case $.ui.keyCode.PAGE_UP:
					newVal = this._trimAlignValue(curVal + (this._valueMax() - this._valueMin()) / numPages);
					break;
				case $.ui.keyCode.PAGE_DOWN:
					newVal = this._trimAlignValue(curVal - (this._valueMax() - this._valueMin()) / numPages);
					break;
				case $.ui.keyCode.UP:
				case $.ui.keyCode.RIGHT:
					if (curVal === this._valueMax()) {
						return;
					}
					newVal = this._trimAlignValue(curVal + step);
					break;
				case $.ui.keyCode.DOWN:
				case $.ui.keyCode.LEFT:
					if (curVal === this._valueMin()) {
						return;
					}
					newVal = this._trimAlignValue(curVal - step);
					break;
				}

				this._slide(event, index, newVal);
		},
		click: function(event)
{`
			event.preventDefault();
		},
		keyup: function(event) {
			var index = $(event.target).data("ui-slider-handle-index");

			if (this._keySliding) {
				this._keySliding = false;
				this._stop(event, index);
				$(event.target).removeClass("ui-state-active");
				this._change(event, index);
			}

			step = this.options.step;
			if (this.options.values && this.options.values.length) {
				curVal = newVal = this.values(index);
			} else {
				curVal = newVal = this.value();
			}

			switch (event.keyCode)
{`
				case $.ui.keyCode.HOME:
					newVal = this._valueMin();
					break;
				case $.ui.keyCode.END:
					newVal = this._valueMax();
					break;
				case $.ui.keyCode.PAGE_UP:
					newVal = this._trimAlignValue(curVal + (this._valueMax() - this._valueMin()) / numPages);
					break;
				case $.ui.keyCode.PAGE_DOWN:
					newVal = this._trimAlignValue(curVal - (this._valueMax() - this._valueMin()) / numPages);
					break;
				case $.ui.keyCode.UP:
				case $.ui keyCode.RIGHT:
					if (curVal === this._valueMax()) {
						return;
					}
					newVal = this._trimAlignValue(curVal + step);
					break;
				case $.ui.keyCode.DOWN:
				case $.ui.keyCode.LEFT:
					if (curVal === this._valueMin()) {
						return;
					}
					newVal = this._trimAlignValue(curVal - step);
					break;
			}

			this._slide(event, index, newVal);
		`}
```
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```javascript
this.options.min !== null) {
    precision = Math.max( precision, this._precisionOf( this.options.min ) );
}

this._precisionOf = function( num ) {
    var str = num.toString(),
        decimal = str.indexOf( "." ),
        length = str.length - 1;
    return decimal === -1 ? 0 : str.length - decimal - 1;
}

this._adjustValue = function( value ) {
    var aboveMin = this.options.min || 0;
    if (this.options.max !== null) {
        if (value > this.options.max) {
            return this.options.max;
        }
    }
    if (this.options.min !== null) {
        if (value < this.options.min) {
            return this.options.min;
        }
    }
    return value;
}

this._value = function( value, allowAny ) {
    var parsed;
    if (value !== null) {
        parsed = this._parse( value );
        if (parsed !== null) {
            if (allowAny) {
                parsed = this._adjustValue( parsed );
            }
            value = this._format( parsed );
        }
    }
    this.element.val( value );
    this._refresh();
}
```

```
var tabId = 0,
    rhash = /#.*$/;

function getNextTabId() {
    return ++tabId;
}

function isLocal( anchor ) {
    return anchor.hash.length > 1 &&
        decodeURIComponent( anchor.href.replace( rhash, "" ) )
    ===
        decodeURIComponent( location.href.replace( rhash, "" ) );
}

$.widget( "ui.tabs", {
    version:
```
Open Source Used In Secure Workload

3.6.1.1

19659
to mouseover bubbling, but always pointing at the same event target.

No element to show a tooltip for or the tooltip is already open: No element to show a tooltip for or the tooltip is already open.

To disable closes the tooltip, so we need to track when we're closing to avoid an infinite loop in

### Example Usage

```javascript
$(document).ready(function() {
    // Initialize tooltips
    $('.ui-tooltip').tooltip();

    // Attach event listeners
    $(document).on('click', '.ui-tooltip-trigger', function() {
        $(this).tooltip('show');
    });

    // Handle events
    $(document).on('focusin focusout', '.ui-tooltip', function(event) {
        var tooltip = $(this);
        // Update tooltip position
        tooltip.tooltip('position');
    });

    // Remove tooltips
    $(document).on('remove', '.ui-tooltip', function() {
        $(this).tooltip('hide');
    });

    // Update content
    $(document).on('update', '.ui-tooltip', function() {
        var tooltip = $(this);
        // Update content
        tooltip.tooltip('option', 'content', content); // content is the new content
    });
});
```
case the tooltip becomes disabled on close\n\t\tif ( this.closing ) {\n\t\t\treturn;\n\t\t}\n\n\t\t// Clear the interval for
delayed tracking tooltips\n\t\tclearInterval( this.delayedShow );\n\n\t\t// only set title if we had one before (see
comment in _open())\n\t\tif ( target.data( \"ui-tooltip-title\" ) ) {\n\t\t\ttarget.attr( \"title\", target.data( \"ui-tooltiptitle\" ) );\n\t\t}\n\n\t\tremoveDescribedBy( target );\n\n\t\ttooltip.stop( true );\n\t\tthis._hide( tooltip,
this.options.hide, function() {\n\t\t\tthat._removeTooltip( $( this ) );\n\t\t});\n\n\t\ttarget.removeData( \"ui-tooltipopen\" );\n\t\tthis._off( target, \"mouseleave focusout keyup\" );\n\t\t// Remove 'remove' binding only on delegated
targets\n\t\tif ( target[0] !== this.element[0] ) {\n\t\t\tthis._off( target, \"remove\" );\n\t\t}\n\t\tthis._off(
this.document, \"mousemove\" );\n\n\t\tif ( event && event.type === \"mouseleave\" ) {\n\t\t\t$.each( this.parents,
function( id, parent ) {\n\t\t\t\t$( parent.element ).attr( \"title\", parent.title );\n\t\t\t\tdelete that.parents[ id
];\n\t\t\t});\n\t\t}\n\n\t\tthis.closing = true;\n\t\tthis._trigger( \"close\", event, { tooltip: tooltip } );\n\t\tthis.closing =
false;\n\t},\n\n\t_tooltip: function( element ) {\n\t\tvar id = \"ui-tooltip-\" + increments++,\n\t\t\ttooltip = $(
\"<div>\" )\n\t\t\t\t.attr({\n\t\t\t\t\tid: id,\n\t\t\t\t\trole: \"tooltip\"\n\t\t\t\t})\n\t\t\t\t.addClass( \"ui-tooltip ui-widget uicorner-all ui-widget-content \" +\n\t\t\t\t\t( this.options.tooltipClass || \"\" ) );\n\t\t$( \"<div>\" )\n\t\t\t.addClass( \"uitooltip-content\" )\n\t\t\t.appendTo( tooltip );\n\t\ttooltip.appendTo( this.document[0].body );\n\t\tthis.tooltips[ id ] =
element;\n\t\treturn tooltip;\n\t},\n\n\t_find: function( target ) {\n\t\tvar id = target.data( \"ui-tooltip-id\" );\n\t\treturn
id ? $( \"#\" + id ) : $();\n\t},\n\n\t_removeTooltip: function( tooltip ) {\n\t\ttooltip.remove();\n\t\tdelete this.tooltips[
tooltip.attr( \"id\" ) ];\n\t},\n\n\t_destroy: function() {\n\t\tvar that = this;\n\n\t\t// close open tooltips\n\t\t$.each(
this.tooltips, function( id, element ) {\n\t\t\t// Delegate to close method to handle common cleanup\n\t\t\tvar event =
$.Event( \"blur\" );\n\t\t\tevent.target = event.currentTarget = element[0];\n\t\t\tthat.close( event, true );\n\n\t\t\t//
Remove immediately; destroying an open tooltip doesn't use the\n\t\t\t// hide animation\n\t\t\t$( \"#\" + id
).remove();\n\n\t\t\t// Restore the title\n\t\t\tif ( element.data( \"ui-tooltip-title\" ) ) {\n\t\t\t\telement.attr( \"title\",
element.data( \"ui-tooltip-title\" ) );\n\t\t\t\telement.removeData( \"ui-tooltip-title\" );\n\t\t\t}\n\t\t});\n\t}\n});\n\n}(
jQuery ) );\n\n\n\n/*****************\n ** WEBPACK FOOTER\n ** ./~/jquery-ui/jquery-ui.js\n ** module id =
7\n ** module chunks = 0\n **/","// This file is autogenerated via the `commonjs` Grunt task. You can require() this
file in a CommonJS
environment.\nrequire('../../js/transition.js')\nrequire('../../js/alert.js')\nrequire('../../js/button.js')\nrequire('../../js/carou
sel.js')\nrequire('../../js/collapse.js')\nrequire('../../js/dropdown.js')\nrequire('../../js/modal.js')\nrequire('../../js/tooltip.js
')\nrequire('../../js/popover.js')\nrequire('../../js/scrollspy.js')\nrequire('../../js/tab.js')\nrequire('../../js/affix.js')\n\n\n/**
***************\n ** WEBPACK FOOTER\n ** ./~/bootstrap/dist/js/npm.js\n ** module id = 8\n ** module
chunks = 0\n **/","/*
========================================================================\n * Bootstrap:
transition.js v3.3.6\n * http://getbootstrap.com/javascript/#transitions\n *
========================================================================\n * Copyright
========================================================================
*/\n\n\n+function ($) {\n 'use strict';\n\n // CSS TRANSITION SUPPORT (Shoutout:
http://www.modernizr.com/)\n //
============================================================\n\n function transitionEnd()
{\n var el = document.createElement('bootstrap')\n\n var transEndEventNames = {\n
WebkitTransition :
'webkitTransitionEnd',\n
MozTransition : 'transitionend',\n
OTransition
: 'oTransitionEnd
otransitionend',\n
transition
: 'transitionend'\n }\n\n for (var name in transEndEventNames) {\n
if
(el.style[name] !== undefined) {\n
return { end: transEndEventNames[name] }\n
}\n }\n\n return false //
explicit for ie8 ( ._.)\n }\n\n // http://blog.alexmaccaw.com/css-transitions\n $.fn.emulateTransitionEnd = function
(duration) {\n var called = false\n var $el = this\n $(this).one('bsTransitionEnd', function () { called = true })\n
var callback = function () { if (!called) $($el).trigger($.support.transition.end) }\n setTimeout(callback,
duration)\n return this\n }\n\n $(function () {\n $.support.transition = transitionEnd()\n\n if
(!$.support.transition) return\n\n $.event.special.bsTransitionEnd = {\n
bindType: $.support.transition.end,\n
delegateType: $.support.transition.end,\n handle: function (e) {\n
if ($(e.target).is(this)) return

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```javascript
PLUGIN DEFINITION
// ===========================================

  function Plugin(option) {
    return this.each(function () {
      var $this = $(this)
      var data = $this.data('bs.button')
      var options = typeof option == 'object' && option
      if (typeof data == 'undefined' || data == null)
        data = new Plugin(this, options)

      if (option == 'toggle') data.toggle()
      else if (option) data.setState(option)
    })
  }

  var old = $.fn.button

  $.fn.button             = Plugin
  $.fn.button.Constructor = Button

  // BUTTON DATA-API
  // ===============

  $(document)
    .on('click.bs.button.data-api', '[data-toggle="button"]', function (e) {
      $(e.target).closest('.btn').toggleClass('active', /
        ^focus(in)?$/.test(e.type))
    })
    .on('focus.bs.button.data-api', '[data-toggle="button"]', function (e) {
      $(e.target).is('input[type=radio]|input[type=checkbox])
      return this
    })

  $.fn.button.noConflict = function () {
    $.fn.button = old
    return this
  }

  // CAROUSEL CLASS DEFINITION
  // =========================

  var Carousel = function (element, options) {
    this.$element    = $(element)
    this.$indicators = this.$element.find('.carousel-indicators')
    this.options     = options
    this.paused      = null
    this.sliding     = null
    this.interval    = null
    this.$active     = null
    this.$items      = null

    this.options.keyboard && this.$element.on('keydown', $.proxy(this.keydown, this))

    this.options.pause == 'hover' && !('ontouchstart' in document.documentElement) &&
      this.$element.on('mouseenter', $.proxy(this.pause, this))
      .on('mouseleave', $.proxy(this.cycle, this))
      .on('click', function (e) {
        var $this = $(this)
        if (!$this.hasClass('active'))
          this.to($this.data('item'))
      })
      .on('slid', function (e) {
        if (e.relatedTarget.$this.hasClass('active'))
          this.to($this.data('item'))
      })

  Carousel.VERSION = '3.3.6'
  Carousel.TRANSITION_DURATION = 600

  // CAROUSEL NO CONFLICT
  // =====================

  $.fn.carousel.noConflict = function () {
    $.fn.carousel = old
    return this
  }

  // CAROUSEL DATA-API
  // ==================

  $(document)
    .on('click', function (e) {
      var $this = $(this)
      var data = $this.data('bs.carousel')
      var $active = $this.find('.item.active')
      var $items = $this.find('.item')
      var itemIndex = $items.index($active)
      var nextIndex = itemIndex + (e.data.direction == 'next' ? 1 : -1)
      var activeIndex = $this.data('item')

      if (nextIndex > $items.length - 1) return
      if (nextIndex < 0) return

      $this.trigger('slid', { relatedTarget: $active })
    })
    .on('slid', function (e) {
      var $this = $(this)
      var data = $this.data('bs.carousel')
      var $items = $this.find('.item')
      var itemIndex = $items.index($this.find('.item.active'))
      var nextIndex = itemIndex + (e.data.direction == 'next' ? 1 : -1)
      var activeIndex = $this.data('item')

      if (nextIndex > $items.length - 1) return
      if (nextIndex < 0) return

      $this.trigger('slid', { relatedTarget: $items.eq(nextIndex) })
    })
    .on('slid', function (e) {
      var $this = $(this)
      var data = $this.data('bs.carousel')
      var $items = $this.find('.item')
      var itemIndex = $items.index($this.find('.item.active'))
      var nextIndex = itemIndex + (e.data.direction == 'next' ? 1 : -1)
      var activeIndex = $this.data('item')

      if (nextIndex > $items.length - 1) return
      if (nextIndex < 0) return

      $this.trigger('slid', { relatedTarget: $items.eq(nextIndex) })
    })

  $(document)
    .on('slid', function (e) {
      var $this = $(this)
      var data = $this.data('bs.carousel')
      var $items = $this.find('.item')
      var itemIndex = $items.index($this.find('.item.active'))
      var nextIndex = itemIndex + (e.data.direction == 'next' ? 1 : -1)
      var activeIndex = $this.data('item')

      if (nextIndex > $items.length - 1) return
      if (nextIndex < 0) return

      $this.trigger('slid', { relatedTarget: $items.eq(nextIndex) })
    })

})(jQuery);
```

---

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var direction = type == 'next' ? 'left' : 'right'
var relatedTarget = $next[0]
var slideEvent = $.Event('slide.bs.carousel', { relatedTarget: relatedTarget, direction: direction })

if (slideEvent.isDefaultPrevented()) return

this.sliding = true
isCycling && this.pause()

if ($next.hasClass('active')) return (this.sliding = false)

var relatedTarget = $next[0]
var slideEvent = $.Event('slide.bs.carousel', {
  relatedTarget: relatedTarget, direction: direction
})

if (!isCycling && this.pause())

this.$indicators.find('.active').removeClass('active')
var $nextIndicator = $(this.$indicators.children()[this.getItemIndex($next)])

$nextIndicator && $nextIndicator.addClass('active')

var slidEvent = $.Event('slid.bs.carousel', { relatedTarget: relatedTarget, direction: direction }) // yes, 'slid'
if ($.support.transition && this.$element.hasClass('slide')) {
  $next.addClass(type)

  $next[0].offsetWidth // force reflow
  $active.addClass(direction)
  $next.addClass(direction)
  $active
    .one('bsTransitionEnd', function () {
      $next.removeClass([type, direction].join(' ')).addClass('active')
      $active.removeClass(['active', direction].join(' '))
      that.sliding = false
      setTimeout(function () {
        that.$element.trigger(slidEvent)
      }, 0)
    }).emulateTransitionEnd(Carousel.TRANSITION_DURATION)
} else {
  $active.removeClass('active')

  $next.addClass('active')
  this.sliding = false
  this.$element.trigger(slidEvent)
}

isCycling && this.cycle()
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```javascript
&& this.$parent.children('.panel').children('.in, .collapsing').attr('aria-expanded', true)
this.$trigger
.removeCollapse('collapsed').attr('aria-expanded', false)
this.$trigger
.fadeOut(100)

this.$trigger
.removeClass('collapsed')
.attr('aria-expanded', false)

this.$trigger
.removeClass('collapsing')

this.$trigger
.trigger('hidden.bs.collapse')
```

---

```
/*
** WEBPACK FOOTER
** module id = 13
** module chunks = 0
**/```
function ($) {
  'use strict';

  // DROPDOWN CLASS DEFINITION
  // -----------------------------------------------------
  var backdrop = '.dropdown-backdrop'
  var toggle   = '[data-toggle="dropdown"]' // Strip for ie7
  var Dropdown = function (element) {
    $(element).on('click.bs.dropdown', this.toggle)

    var $this = $(this)
    var selector = $this.attr('data-target')

    if (!selector) return $parent = $(selector)

    // Dropdown -基建一个打开的下拉菜单
    if ($parent.hasClass('open')) return $parent.hasClass('open')

    // 触发下拉菜单的显示或隐藏
    if (e) $parent.trigger(e = $.Event('show.bs.dropdown', {relatedTarget: e}))

    if (e.isDefaultPrevented()) return

    $parent
      .toggleClass('open')
      .trigger($.Event('shown.bs.dropdown', {relatedTarget: e}))
    }

    this.toggle = function (e) {
      var $this = $(this)

      if ($this.is('.disabled, :disabled')) return

      var $parent  = getParent($this)
      var isActive = $parent.hasClass('open')

      clearMenus()

      if (!isActive) {
        if ('ontouchstart' in document.documentElement && !$parent.closest('.navbar-nav').length) {
          // if mobile we use a backdrop
          $(document.createElement('div'))
            .addClass('dropdown-backdrop')
            .insertAfter($(this))
            .on('click', clearMenus)
        }

        var $items = $parent.find('.dropdown-menu' + desc)

        if (!$items.length) return

        var index = $items.index(e.target)

        if (e.which == 38 && index > 0) // up
          index--
        if (e.which == 40 && index < $items.length - 1) // down
          index++
        if (!~index) index = 0

        $items.eq(index).trigger('focus')
      }

      return false
    }

    this.keydown = function (e) {
      if (!/(38|40|27|32)/.test(e.which) || e.type == 'click' && /input|textarea/i.test(e.target.tagName) && $.contains($parent[0], e.target)) return

      if (e.which == 27) $parent.find(toggle).trigger('focus')
      return $this.trigger('click')
    }

    return this
  }

  function Plugin(option) {
    return this.each(function () {
      var $this = $(this)
      var data  = $this.data('bs.dropdown')

      if (!data) $this.data('bs.dropdown', (data = new Dropdown(this)))
      if (typeof option == 'string') data[option].call($this)
    })
  }

  var old = $.fn.dropdown

  $.fn.dropdown             = Plugin
  $.fn.dropdown.Constructor = Dropdown

  $.fn.dropdown.noConflict = function () {
    $.fn.dropdown = old
    return this
  }

  $(document)
    .on('click.bs.dropdown.data-api', clearMenus)
    .on('click.bs.dropdown.data-api', '.dropdown form', function (e) { e.stopPropagation() })
    .on('click.bs.dropdown.data-api', toggle, Dropdown.prototype.toggle)
    .on('keydown.bs.dropdown.data-api', Dropdown.prototype.keydown)

}(jQuery);

/*****************
 ** WEBPACK FOOTER
 ** module id = 14
 ** module chunks = 0
 **/
var Modal = function (element, options) {\n this.options
= options\n this.$body
=
$(document.body)\n this.$element
= $(element)\n this.$dialog
= this.$element.find('.modaldialog')\n this.$backdrop
= null\n this.isShown
= null\n this.originalBodyPad = null\n
this.scrollbarWidth
= 0\n this.ignoreBackdropClick = false\n\n if (this.options.remote) {\n
this.$element\n
.find('.modal-content')\n
.load(this.options.remote, $.proxy(function () {\n
this.$element.trigger('loaded.bs.modal')\n
}, this))\n }\n }\n\n Modal.VERSION = '3.3.6'\n\n
Modal.TRANSITION_DURATION = 300\n Modal.BACKDROP_TRANSITION_DURATION = 150\n\n
Modal.DEFAULTS = {\n backdrop: true,\n keyboard: true,\n show: true\n }\n\n Modal.prototype.toggle =
function (_relatedTarget) {\n return this.isShown ? this.hide() : this.show(_relatedTarget)\n }\n\n
Modal.prototype.show = function (_relatedTarget) {\n var that = this\n var e = $.Event('show.bs.modal', {
relatedTarget: _relatedTarget })\n\n this.$element.trigger(e)\n\n if (this.isShown || e.isDefaultPrevented())
return\n\n this.isShown = true\n\n this.checkScrollbar()\n this.setScrollbar()\n this.$body.addClass('modalopen')\n\n this.escape()\n this.resize()\n\n this.$element.on('click.dismiss.bs.modal', '[data-dismiss=\"modal\"]',
$.proxy(this.hide, this))\n\n this.$dialog.on('mousedown.dismiss.bs.modal', function () {\n
that.$element.one('mouseup.dismiss.bs.modal', function (e) {\n
if ($(e.target).is(that.$element))
that.ignoreBackdropClick = true\n
})\n })\n\n this.backdrop(function () {\n
var transition =
$.support.transition && that.$element.hasClass('fade')\n\n
if (!that.$element.parent().length) {\n
that.$element.appendTo(that.$body) // don't move modals dom position\n
}\n\n
that.$element\n
.show()\n
.scrollTop(0)\n\n
that.adjustDialog()\n\n
if (transition) {\n
that.$element[0].offsetWidth // force
reflow\n
}\n\n
that.$element.addClass('in')\n\n
that.enforceFocus()\n\n
var e =
$.Event('shown.bs.modal', { relatedTarget: _relatedTarget })\n\n
transition ?\n
that.$dialog // wait for modal
to slide in\n
.one('bsTransitionEnd', function () {\n
that.$element.trigger('focus').trigger(e)\n
})\n
.emulateTransitionEnd(Modal.TRANSITION_DURATION) :\n
that.$element.trigger('focus').trigger(e)\n
})\n }\n\n Modal.prototype.hide = function (e) {\n if (e) e.preventDefault()\n\n e = $.Event('hide.bs.modal')\n\n
this.$element.trigger(e)\n\n if (!this.isShown || e.isDefaultPrevented()) return\n\n this.isShown = false\n\n
this.escape()\n this.resize()\n\n $(document).off('focusin.bs.modal')\n\n this.$element\n
.removeClass('in')\n
.off('click.dismiss.bs.modal')\n
.off('mouseup.dismiss.bs.modal')\n\n
this.$dialog.off('mousedown.dismiss.bs.modal')\n\n $.support.transition && this.$element.hasClass('fade') ?\n
this.$element\n
.one('bsTransitionEnd', $.proxy(this.hideModal, this))\n
.emulateTransitionEnd(Modal.TRANSITION_DURATION) :\n
this.hideModal()\n }\n\n
Modal.prototype.enforceFocus = function () {\n $(document)\n
.off('focusin.bs.modal') // guard against infinite
focus loop\n
.on('focusin.bs.modal', $.proxy(function (e) {\n
if (this.$element[0] !== e.target &&
!this.$element.has(e.target).length) {\n
this.$element.trigger('focus')\n
}\n
}, this))\n }\n\n
Modal.prototype.escape = function () {\n if (this.isShown && this.options.keyboard) {\n
this.$element.on('keydown.dismiss.bs.modal', $.proxy(function (e) {\n
e.which == 27 && this.hide()\n
},
this))\n } else if (!this.isShown) {\n
this.$element.off('keydown.dismiss.bs.modal')\n }\n }\n\n
Modal.prototype.resize = function () {\n if (this.isShown) {\n
$(window).on('resize.bs.modal',
$.proxy(this.handleUpdate, this))\n } else {\n
$(window).off('resize.bs.modal')\n }\n }\n\n
Modal.prototype.hideModal = function () {\n var that = this\n this.$element.hide()\n this.backdrop(function ()
{\n
that.$body.removeClass('modal-open')\n
that.resetAdjustments()\n
that.resetScrollbar()\n
that.$element.trigger('hidden.bs.modal')\n })\n }\n\n Modal.prototype.removeBackdrop = function () {\n
this.$backdrop && this.$backdrop.remove()\n this.$backdrop = null\n }\n\n Modal.prototype.backdrop =
function (callback) {\n var that = this\n var animate = this.$element.hasClass('fade') ? 'fade' : ''\n\n if
(this.isShown && this.options.backdrop) {\n
var doAnimate = $.support.transition && animate\n\n
this.$backdrop = $(document.createElement('div'))\n
.addClass('modal-backdrop ' + animate)\n
.appendTo(this.$body)\n\n
this.$element.on('click.dismiss.bs.modal', $.proxy(function (e) {\n
if
(this.ignoreBackdropClick) {\n
this.ignoreBackdropClick = false\n
return\n
}\n
if (e.target !==
e.currentTarget) return\n
this.options.backdrop == 'static'\n
? this.$element[0].focus()\n
:

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var Tooltip = function (element, options) {
    this.type = null;
    this.options = null;
    this.enabled = null;
    this.timeout = null;
    this.hoverState = null;
    this.$element = null;
    this.inState = null;
    this.init('tooltip', element, options);
}

$.fn["tooltip"] = function (options) {
    return this.each(function () {
        var $tip = $(this).data('bs.tooltip');

        if (!$tip && options)
            $tip = new Tooltip(this, options);

        if (typeof options === 'string')
            $tip[options]();

        return $tip;
    });
}

$.Event('show.bs.tooltip', $tip[0], $element[0])

for (var key in $this.inState) {
    if ($this.inState[key]) return
}

if (!inDom)
    return

var that = this

var $tip = this.tip()

var tipId = this.getUID(this.type)

this.setContent()

$tip.attr('id', tipId)

this.$element.attr('aria-describedby', $tip[0].id)

if (this.options.animation)
    $tip.addClass('fade')

var placement = typeof this.options.placement

this.$element.addClass('in')

that.inState = null

that[this.type] = $tip

this.init('tooltip', element, options)

if (options.selector)
    (this._options = $this.options.selector)

if (this.$element[0] instanceof document.constructor && !this.options.selector)
    throw new Error('`selector` option must be specified when initializing ' + this.type + ' on the window.document object!')

if (typeof this.options.animation != 'boolean')
    this.options.animation = true

if (typeof this.options.placement != 'string')
    this.options.placement = 'top'

if (typeof this.options.container != 'string')
    this.options.container = false

viewpoint: (this.options.selector, this.options.container, this.options.container, $this.options.container, this.options.container, $this.options.container)
Unknown
Tooltip.prototype.getCalculatedOffset = function(placement, pos, actualWidth, actualHeight) {
    return
    placement == 'bottom' ? { top: pos.top + pos.height, left: pos.left + pos.width / 2 - actualWidth / 2 } :
    placement == 'top' ? { top: pos.top - actualHeight, left: pos.left + pos.width / 2 - actualWidth / 2 } :
    placement == 'left' ? { top: pos.top + pos.height / 2 - actualHeight / 2, left: pos.left - actualWidth } :
    placement == 'right' ? { top: pos.top + pos.height / 2 - actualHeight / 2, left: pos.left + pos.width } : 

    return $.extend({}, elRect, scroll, outerDims, elOffset)
  }

Tooltip.prototype.getViewPortAdjustedDelta = function(placement, pos, actualWidth, actualHeight) {
    var delta = { top: 0, left: 0 }
    if (!this.$viewport) return delta

    var viewportPadding = this.options.viewport && this.options.viewport.padding || 0
    var viewportDimensions = this.getPosition(this.$viewport)

    if (/right|left/.test(placement)) {
      var topEdgeOffset = pos.top - viewportPadding - viewportDimensions.scroll
      var bottomEdgeOffset = pos.top + viewportPadding + actualHeight
      if (topEdgeOffset < viewportDimensions.top) { // top overflow
        delta.top = viewportDimensions.top - topEdgeOffset
      } else if (bottomEdgeOffset > viewportDimensions.top + viewportDimensions.height) { // bottom overflow
        delta.top = viewportDimensions.top + viewportDimensions.height - bottomEdgeOffset
      } else if (leftEdgeOffset < viewportDimensions.left) { // left overflow
        delta.left = viewportDimensions.left - leftEdgeOffset
      } else if (rightEdgeOffset > viewportDimensions.right) { // right overflow
        delta.left = viewportDimensions.right + viewportDimensions.width - rightEdgeOffset
      } else
      return delta
    }

    return delta
  }

Tooltip.prototype.getTitle = function() {
    var title = $e.attr('data-original-title') || (typeof options.title == 'function' ? options.title.call($e[0]) : o.title)
    return title
  }

Tooltip.prototype.getUID = function(prefix) {
    do prefix += ~~(Math.random() * 1000000) while (document.getElementById(prefix))
    return prefix
  }

Tooltip.prototype.tip = function() {
    if (!this.$tip) {
      this.$tip = $(this.options.template)
      if (this.$tip.length != 1) {
        throw new Error(this.type + ' `template` option must consist of exactly 1 top-level element!')
      }
    }
    return this.$tip
  }

Tooltip.prototype.arrow = function() {
    return (this.$arrow = this.$arrow || this.tip().find('.tooltip-arrow'))
  }

Tooltip.prototype.enable = function() {
    this.enabled = true
  }

Tooltip.prototype.disable = function() {
    this.enabled = false
  }

Tooltip.prototype.toggleEnabled = function() {
    this.enabled = !this.enabled
  }

Tooltip.prototype.toggle = function(e) {
    var self = this
    if (e) {
      self.inState.click = !self.inState.click
      if (self.inStateTrue()) self.enter(self)
      else self.leave(self)
    } else {
      self.tip().hasClass('in') ? self.leave(self) : self.enter(self)
    }

    return this.$tip
}

Tooltip.prototype.arrow = function() {
    return (this.$arrow = this.$arrow || this.tip().find('.tooltip-arrow'))
  }

Tooltip.prototype.enable = function() {
    this.enabled = true
  }

Tooltip.prototype.disable = function() {
    this.enabled = false
  }

Tooltip.prototype.toggleEnabled = function() {
    this.enabled = !this.enabled
  }

Tooltip.prototype.toggle = function(e) {
    var self = this
    if (e) {
      self.inState.click = !self.inState.click
      if (self.inStateTrue()) self.enter(self) else self.leave(self)
    } else
    return this.$tip
  }

Tooltip.prototype.destroy = function() {
    var that = this
    clearTimeout(this.timeout)
    this.hide(function() {
      that.$element.off('.' + that.type).removeData('bs.' + that.type)
      if (that.$tip) {
        that.$tip.detach()}
    }
    that.$tip = null
    that.$arrow = null
    that.$viewport = null
  }
}

tooltip.

/*========================================================================
 * Bootstrap: popovers.js v3.3.6
 * http://getbootstrap.com/javascript/#popovers
 ** WEBPACK FOOTER
 ** module id = 16
 ** module chunks = 0
 **/
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/* Copyright
 * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
 */

$(document.body) !== null

function ScrollSpy(element, options) {
  var this.body = $(document.body)
  var this.scrollElement = $(element).is(document.body) ? $(window) : $(element)

  this.options = $.extend({}, ScrollSpy.DEFAULTS, options)
  this.selector = (this.options.target || '') + ' .nav li > a'

  this.offsets = []
  this.targets = []
  this.activeTarget = null
  this.scrollHeight = 0

  this.scrollElement.on('scroll', function(event, elem) {
    if (elem) return;

    this.refresh();
  }).on('scrollend', function() {
    this.refresh();
  })

  this.scrollSpy.prototype.refresh = function() {
    var offsetBase = 0
    var targets = []

    this.forEach(function(element) {
      offsetBase += $(element).offset().top
      targets.push($(element).offset().top)
    })

    this.activeTarget = this.getActiveTarget()
  }

  this.scrollSpy.prototype.getActiveTarget = function() {
    var closestTop = -1
    var closestIndex = -1

    this.forEach(function(top, index) {
      if (top > closestTop) {
        closestTop = top
        closestIndex = index
      }
    })

    return closestIndex
  }

  this.forEach = function(callback) {
    var i = 0
    var length = this.length

    while (i < length) {
      callback(this[i], i)
      i++
    }
  }

  this.getScrollHeight = function() {
    return this.$scrollElement[0].scrollHeight || Math.max(this.$body[0].scrollHeight, this.scrollHeight)
  }

  this.$body = $(document.body)

  $this.scrollSpy = new ScrollSpy(this.$body, this.options)

  this.scrollSpy.scrollSpy.refresh();

  if ($this.scrollSpy.getActiveTarget() > 0) {
    $this.$body.scrollTop($this.scrollSpy.getActiveTarget() - this.scrollHeight / 2)
  }

  this.scrollSpy.scrollSpy.refresh();

  /* Bootstrap:
   * http://getbootstrap.com/javascript/#scrollspy
   */

  /* Copyright
   * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
   */
$(this)
        var href = $el.data('target') || $el.attr('href')
        var Shref = href.test(href) && $(href)

    return (Shref
      && Shref.length
      && Shref.is(':visible'))
      && [[Shref[offseMethod]().top + offsetBase, href]]
      .sort(function (a, b) { return a[0] - b[0] })
      .each(function () {
        var scrollTop = this.ScrollElement.scrollTop() + this.options.offset
        var scrollHeight = this.scrollHeight
        var maxScroll = this.options.offset + scrollHeight - this.ScrollElement.height()
        var offsets = this.options
        var targets = this.targets
        var activeTarget = this.activeTarget
        var i

        if (scrollTop != scrollHeight) {
          this.refresh()
        }

        if (scrollTop >= maxScroll) {
          return
        }

        if (activeTarget && scrollTop < offsets[0])
          this.activeTarget = null
          return this.clear()
        for (i = offsets.length; i--;) {

          if (activeTarget != targets[i] && & & scrollTop >= offsets[i] + 1
          & & this.activate(targets[i]))
            return
          }

          this.activeTarget = targets[targets.length - 1]
          && this.activate(targets[targets.length - 1])
      }
      return ($href
        && $href.length
        && $href.is(':visible')
        && [
          $href[offsetMethod]().top + offsetBase,
          href
        ]) || null
    })

    return ($href
      && $href.length
      && $href.is(':visible')
      && [
        $href[offsetMethod]().top + offsetBase,
        href
      ]) || null
  })

  function Plugin(option) {
    return this.each(function () {
      var $this = $(this)
      var data = $this.data('bs.scrollspy')
      var options = typeof option == 'object' && option

      if (!data) $this.data('bs.scrollspy', (data = new ScrollSpy(this, options)))
      if (typeof option == 'string')
        data[option]()
    })
  }

  var old = $.fn.scrollspy

  $.fn.scrollspy             = Plugin

  $.fn.scrollspy.Constructor = ScrollSpy

  // SCROLLSPY NO CONFLICT
  // =====================

  $.fn.scrollspy.noConflict = function () {
    $.fn.scrollspy = old
    return this
  }

  // SCROLLSPY DATA-API
  // ==================

  $(window).on('load.bs.scrollspy.data-api', function () {
    $('[data-spy="scroll"]').each(function () {
      var $spy = $(this)
      Plugin.call($spy, $spy.data())
    })
  })

  // SCROLLSPY PLUGIN DEFINITION
  // ===========================

  function ScrollSpy(element, options) {
    var $element = $(element)
    var $this = $element.data('bs.scrollspy')

    if (!$this)
      $this = new ScrollSpy(element, options)
      $this.init()
metadata
* @param  {(ArrayBuffer | ArrayBufferView)[]} buffers
* @return {string} msg id

this.jsServicesComm.send(data, metadata, buffers);\nthis._hookupCallbacks(future, callbacks);\nreturn future,msgId;\n
this._hookupCallbacks(future, callbacks);\n* @param  {(object) => void} callback - signature of f(msg)\n* @param  {object} data\n* @param  {object} metadata\n* @return {string} msg id

Comm.prototype.send = function (data, callbacks, metadata, buffers) {
    var future = this.jsServicesComm.send(data, metadata, buffers);
    this._hookupCallbacks(future, callbacks);
    return future.msgId;
};

/**
 * Closes the sibling comm in the backend\n* @param  {object} data\n* @param  {object} metadata\n* @return {string} msg id
 */
Comm.prototype.close = function (data, callbacks, metadata, buffers) {
    var future = this.jsServicesComm.close(data, metadata);
    this._hookupCallbacks(future, callbacks);
    return future.msgId;
};

/**
 * Register a message handler\n* @param  {(object) => void} callback - signature of f(msg)\n */
Comm.prototype.on_msg = function (callback) {
    this.jsServicesComm.onMsg = callback.bind(this);
};

/**
 * Register a handler for when the comm is closed\n* @param  {(object) => void} callback - signature of f(msg)\n */
Comm.prototype.on_close = function (callback) {
    this.jsServicesComm.onClose = callback.bind(this);
};

/**
 * Hooks callback object up with jupyter-js-services IKernelFuture\n* @param  {IKernelFuture} future - jupyter-js-services IKernelFuture\n* @param  {object} callbacks\n* @param  {Comm.prototype._hookupCallbacks} Callbacks = function(future, callbacks) {
    var futureReturn = future;
    return futureReturn;
}\

future.onReply = function(msg) {
    if (callbacks.shell && callbacks.shell.reply)
        callbacks.shell.reply(msg);
        // TODO: Handle payloads. See https://github.com/jupyter/notebook/blob/master/notebook/static/services/kernels/kernel.js#L923-L947
    if (callbacks.iopub)
        switch(msg.msg_type) {
                        case 'display_data':
                        case 'execute_result':
                            callbacks.iopub.output(msg);
                            break;
                    };
};

module.exports = {
    'CommManager': CommManager,
    'Comm': Comm
};

/*****************
 ** WEBPACK FOOTER
 ** ./~/jupyter-js-widgets/src/services-shim.js
 ** module id = 21
 ** module chunks = 0
 **/
ManagerBase.prototype._view_types[view_name] = view_type;
}

ManagerBase.prototype.display_model = function(msg, model, options) {
    return this.create_view(model, options).then(function(view) {
        this.display_view(msg, view, options);
    }, function(err) {
        this.handle_error(msg, err);
    });
}

ManagerBase.prototype.create_view = function(model, options) {
    var that = this;
    model.state_change = model.state_change.then(function() {

        return utils.loadClass(model.get('_view_name'), model.get('_view_module'),
        ManagerBase._view_types, that.require_error).then(function(ViewType) {
            var view = new ViewType({
                model: model,
                options: that.setViewOptions(options)
            });
            view.listenTo(model, 'destroy', view.remove);

            return Promise.resolve(view.render()).then(function() {
                return view;
            });
        }).catch(utils.reject("Couldn't create a view for model id '" + String(model.id) + "'", true));
    });
    var id = utils.uuid();
    model.views[id] = model.state_change;
    model.state_change.then(function(view) {
        view.once('remove', function() {
            delete view.model.views[id];
        }, this);
    });
    return model.state_change;
}

ManagerBase.prototype.callbacks = function (view) {
    return {};
}

ManagerBase.prototype.get_model = function (model_id) {
    return this._models[model_id];
}

ManagerBase.prototype.handle_comm_open = function (comm, msg) {
    this._create_comm(comm, options.model_id, {
        widget_class: options.widget_class,
        target_name: 'jupyter.widget',
    });

    return new Promise((function(resolve, reject) {
        comm.on_msg((function(msg) {
            if (msg['msg_type'] == 'comm_open') {
                var commPromise;
                // If no comm is provided, a new comm is opened for the
                // jupyter.widget
                // target.
                if (options.comm) {
                    commPromise = Promise.resolve(options.comm);
                } else {
                    commPromise = new Promise((function(resolve, reject) {
                        comm.on_msg((function(msg) {
                            if (msg['msg_type'] == 'comm_open') {
                                var commPromise = new Promise((function(resolve, reject) {
                                    comm.on_msg((function(msg) {
                                        if (msg['msg_type'] == 'comm_closed') {
                                            resolve();
                                        } else {
                                            reject();
                                        }
                                    }, this));
                                }, this));
                            } else {
                                reject();
                            }
                        }, this));
                    }, this));
                }

                commPromise.then(function(comm) {
                    // Comm Promise Resolved.
                    options.clone_model_id = utils.uuid();
                    var options_clone = _create_clone(options);
                    // Create the model. In the case where the comm promise is rejected an
                    // comm-less model is still created with the required model id.
                    var that = this;
                    return commPromise.then(function(comm) {
                        var options_clone_model_id = utils.uuid();
                        return new_model(options_clone, serialized_state);
                    }, function(err) {
                        // Comm Promise Rejected.
                        if (err) {
                            return new Promise((function(resolve, reject) {
                                resolve(false);
                            }, this));
                        }

                        // Validate the version of the Javascript against the version requested by
                        // the backend.
                        if (options_clone.model_id) {
                            return new_model(options_clone, serialized_state);
                        }
                    });
                }, function(err) {
                    // Comm Promise Rejected.
                    if (err) {
                        return new Promise((function(resolve, reject) {
                            resolve(false);
                        }, this));
                    }
                });
            }
        }, this));
    }, function(err) {
        // Comm Promise Rejected.
        if (err) {
            return new Promise((function(resolve, reject) {
                resolve(false);
            }, this));
        }
    });
}

ManagerBase.prototype.new_widget = function(options, serialized_state) {
    var commPromise;
    // If no comm is provided, a new comm is opened for the
    // jupyter.widget
    // target.
    if (options.comm) {
        commPromise = Promise.resolve(options.comm);
    }

    return new Promise((function(resolve, reject) {
        commPromise.then(function(comm) {
            // Comm Promise Resolved.
            var options_clone_model_id = utils.uuid();
            return new_model(options_clone, serialized_state);
        }, function(err) {
            // Comm Promise Rejected.
            if (err) {
                return new Promise((function(resolve, reject) {
                    resolve(false);
                }, this));
            }

            // Validate the version of the Javascript against the version requested by
            // the backend.
            if (options_clone.model_id) {
                return new_model(options_clone, serialized_state);
            }
        });
    }, function(err) {
        // Comm Promise Rejected.
        if (err) {
            return new Promise((function(resolve, reject) {
                resolve(false);
            }, this));
        }
    });
}

ManagerBase.prototype.validateVersion = function() {
    return this._create_comm('validate_version', undefined, {}).then((function(comm)
        return new
    });
}

ManagerBase.prototype.require_error = function

version = require('./package.json').version;
var requirement = msg.content.data.version;
var validated = semver.satisfies(version, requirement);
if (validated) {
    console.info('Widget backend and frontend versions are compatible');
    resolve(validated);
} else {
    reject(new Error('Timeout while trying to cross validate the widget frontend and backend versions.'));
}

ManagerBase.prototype.new_model = function(options, serialized_state) {
    /**
     * Create and return a promise for a new widget model
     *
     * Minimally, one must provide the model_name and widget_class
     * parameters to create a model from Javascript.
     *
     * Example
     * -----
     * JS:
     * Jupyter.notebook.kernel.widget_manager.new_model({
     *    model_name: 'WidgetModel',
     *    widget_class: 'Jupyter.IntSlider'
     * })
     * .then(function(model) { console.log('Create success!',
     *    model); },
     *    function(error) { throw new Error('Could not create model!', error); });
     *
     * Parameters
     * ----------
     * options: dictionary
     *  Dictionary of options with the following contents:
     *      model_name: string
     *          Target name of the widget model to create.
     *      model_module: (optional) string
     *          Module name of the widget model to create.
     *      widget_class: (optional) string
     *          Target name of the widget in the back-end.
     *      comm: (optional) Comm
     *           Comm object associated with the widget.
     *      model_id: (optional)
     *           If not provided, the comm id is used.
     *      serialized_state: dictionary
     *          Dictionary of the attribute values for the model.
     *      only_displayed: (optional) boolean=false
     *          Only return models with one or more displayed views.
     *      not_live: (optional) boolean=false
     *          Include models that have comms with severed connections.
     *      drop_defaults: (optional) boolean=false
     *          Drop model attributes that are equal to their default values.
     *      only_displayed: (optional) boolean=false
     *          Only return models with one or more displayed views.
     *      not_live: (optional) boolean=false
     *          Include models that have comms with severed connections.
     *
     * Returns
     * -------
     * Promise for a state dictionary
     */
    var that = this;
    if (options.model_id) {
        model_id = options.model_id;
    } else if (options.comm) {
        model_id = options.comm.comm_id;
    } else {
        throw new Error('Neither comm nor model_id provided in options object. At least one must exist.');
    }
    var widget_model = new OptionsType(that, model_id, options.comm, attributes);
    widget_model.once('comm:close', function () {
        delete that._models[model_id];
    });
    widget_model.name = options.model_name;
    that._models[model_id] = widget_model;
    return widget_model;
}

ManagerBase.prototype.close = function(commlessOnly) {
    var that = this;
    try {
        that.models = ManagerBase.prototype._get_models();
        var models = detections.get_state();
        var state = {};

        for (var model_id in models) {
            if (models.hasOwnProperty(model_id)) {
                var widget_model = models[model_id];

                // If the model has one or more views defined for it,
                // consider it displayed.
                var displayed_flag = !!(options &amp;&amp; options.only_displayed) || Object.keys(model.views).length > 0;

                if (displayed_flag &amp;&amp; live_flag) {
                    state[model_id] = utils.resolvePromisesDict({
                        model_name: model.name,
                        model_module: model.module,
                        widget_class: model.widget_class,
                        model_id: model_id,
                        model_class: model._model_class,
                        only_displayed: options.only_displayed,
                        not_live: options.not_live,
                        comm: model.comm,
                        commlessOnly: model.commlessOnly
                    }, that.require_error).then(function(model) { console.log('Close success!',
                        model); },
                        function(error) { throw new Error('Could not close model!', error); });
                }
            }
        }
    } finally {
        that.models = {}
    }
    return that.models;
}

ManagerBase.prototype.clear_state = function() {
    var that = this;
    try {
        that.models = ManagerBase.prototype._get_models();
        var models = detections.get_state();
        for (var model_id in models) {
            if (models.hasOwnProperty(model_id)) {
                var widget_model = models[model_id];

                // If the model has one or more views defined for it,
                // consider it displayed.
                var displayed_flag = !!(options &amp;&amp; options.only_displayed) || Object.keys(model.views).length > 0;

                if (displayed_flag &amp;&amp; live_flag) {
                    state[model_id] = utils.resolvePromisesDict({
                        model_name: model.name,
                        model_module: model.module,
                        widget_class: model.widget_class,
                        model_id: model_id,
                        model_class: model._model_class,
                        only_displayed: options.only_displayed,
                        not_live: options.not_live,
                        comm: model.comm,
                        commlessOnly: model.commlessOnly
                    }, that.require_error).then(function(model) { console.log('Close success!',
                        model); },
                        function(error) { throw new Error('Could not close model!', error); });
                }
            }
        }
    } finally {
        that.models = {}
    }
    return that.models;
}

ManagerBase.prototype.get_state = function(options) {
    /**
     * Asynchronously get the state of the widget manager.
     *
     * This includes all of the widget models.
     *
     * Parameters
     * ----------
     * options: dictionary
     *  Dictionary of options with the following contents:
     *      only_displayed: (optional) boolean=false
     *          Only return models with one or more displayed views.
     *      not_live: (optional) boolean=false
     *          Include models that have comms with severed connections.
     *      drop_defaults: (optional) boolean=false
     *          Drop model attributes that are equal to their default values.
     *      only_displayed: (optional) boolean=false
     *          Only return models with one or more displayed views.
     *      not_live: (optional) boolean=false
     *          Include models that have comms with severed connections.
     *
     * Returns
     * -------
     * Dictionary of options with the following contents:
     *Dictionary of options with the following contents:
     */
    var that = this;
    try {
        that.models = ManagerBase.prototype._get_models();
        var models = detections.get_state();
        var state = {};

        for (var model_id in models) {
            if (models.hasOwnProperty(model_id)) {
                var widget_model = models[model_id];

                // If the model has one or more views defined for it,
                // consider it displayed.
                var displayed_flag = !!(options &amp;&amp; options.only_displayed) || Object.keys(model.views).length > 0;

                if (displayed_flag &amp;&amp; live_flag) {
                    state[model_id] = utils.resolvePromisesDict({
                        model_name: model.name,
                        model_module: model.module,
                        widget_class: model.widget_class,
                        model_id: model_id,
                        model_class: model._model_class,
                        only_displayed: options.only_displayed,
                        not_live: options.not_live,
                        comm: model.comm,
                        commlessOnly: model.commlessOnly
                    }, that.require_error).then(function(model) { console.log('Close success!',
                        model); },
                        function(error) { throw new Error('Could not close model!', error); });
                }
            }
        }
    } finally {
        that.models = {}
    }
    return that.models;
}
model_module: model.module,

state:

model.constructor._serialize_state(model.get_state(options.drop_defaults), that),

views:

utils.resolvePromisesDict(model.views).then(function (views) {

  return 

  _values(views).filter(function(view) {
    return view.options !== undefined &&
    view.options.root;
  }).map(function (view) {
    return that.filterViewOptions(view.options);
  });

});

}

return utils.resolvePromisesDict(state);

}

return Promise.reject('Could not get state of widget manager.', true);

}

ManagerBase.prototype.filterViewOptions = function(options) {

    /**
     * Returns the keys of view options that must be stored in the serialized
     * widget manager state.
     * This is meant to be overloaded in custom managers, which may register
     * the cell index.
     */

    return {};

};

ManagerBase.prototype.set_state = function(state, displayOptions) {

    /**
     * Set the widget manager state.
     *
     * Reconstructs all of the widget models in the state, merges that with the
     * current manager state, and then attempts to redisplay the widgets in the
     * manager state.
     */

    var that = this;

    // Recreate all the widget models for the given widget manager state.
    var all_models =

    that._get_comm_info().then(function(live_comms) {

        return Promise.all(_.map(Object.keys(state), function(model_id) {

            // If the model has already been created, set it's state and then
            // return it.

            if (that_models[model_id]) {

                return that_models[model_id].then(function(model) {

                    model.constructor._deserialize_state(state[model_id].state || {}, that).then(function(attributes) {

                        model.set_state(attributes);

                        return model;
                    });
                });
            }

            if (live_comms.hasOwnProperty(model_id)) {  // live comm

                return that._create_comm(that.comm_target_name, model_id).then(function(new_comm) {

                    return that.new_model({
                        comm: new_comm,
                        model_name: state[model_id].model_name,
                        model_module: state[model_id].model_module,

                    });

                });
            } else { // dead comm

                return that.new_model({
                    model_id: model_id,
                    model_name: state[model_id].model_name,
                    model_module: state[model_id].model_module,
                }, state[model_id].state);
            }

        }));

    });

    // Display all the views
    return all_models.then(function(models) {

        return Promise.all(_.map(models, function(model) {

            // Display the views of the model.

            if (state[model.id] !== undefined) {

                // Display the

                if (displayOptions &&
                displayOptions.displayOnce && state[model.id].views && state[model.id].views.length) {

                    return that.display_model(undefined, model, _.extend({}, options, displayOptions));
                } else {

                    return Promise.all(_.map(state[model.id].views, function(options) {

                        return that.display_model(undefined, model, _.extend({}, options, displayOptions));
                    }));

                }

            }

        }));

    }).catch(function(err) {

        return Promise.reject('Could not create_comm.', true);
    });

};

ManagerBase.prototype._create_comm =

function(comm_target_name, model_id, data) {

    return Promise.reject("No

    backend.");

};

ManagerBase.prototype._get_comm_info = function() {

    return Promise.reject("No

    backend.");

};

ManagerBase.prototype._get_comm_info = function() {

    return Promise.reject("No

    backend.");

};

module.exports = {

    ManagerBase: ManagerBase

};


/*****************
 **

**

WEBPACK FOOTER
** ./~/jupyter-js-widgets/src/manager-base.js
** module id = 23
** module chunks =
** WEBPACK FOOTER**--

// Establish the root object, 'window' ('self')
// in the browser, or 'global' on the server.
// We use 'self' instead of 'window' for 'WebWorker' support.
var root = (typeof self == 'object' && self.self == self && self) ||
            (typeof global == 'object' && global.global
            == global && global); root

// Set up Backbone appropriately for the environment. Start with AMD
if (typeof define === 'function' && define.amd) {

    define(['underscore', 'jquery', 'exports'], function(_, $, exports) {

        // Export global even in AMD case in case this script is loaded with
        // others that may still expect a global object.

        Backbone = factory(root, exports, _) ||

        // Next for Node.js or CommonJS. jQuery may not be needed as a module.

    } else if (typeof exports !== 'undefined') {

        var _ = require('underscore'), $;

        // AMD

        module.exports = {

            Backbone: ManagerBase

        }

    }

');


Proxy Underscore methods to a Backbone class prototype using

var addMethod = function(length, method, attribute) {
  switch (length) {
    case 1: return function() {
      var args = slice.call(arguments);
      this._[method] = function() {
        return _[method](this[attribute]);
      };
    };
    case 2: return function(value) {
      var return_[method](this[attribute], value);
    };
    case 3: return function(iteratee, context) {
      return _[method](this[attribute], iteratee, context);
    };
    case 4: return function(iteratee, defaultVal, context) {
      return _[method](this[attribute], iteratee, defaultVal, context);
    };
  }
}

default: return function() {
  var args = slice.call(arguments);
  args.unshift(this[attribute]);
  return this._[method].apply(this, args);
};

var addUnderscoreMethods = function(Class, methods, attribute) {
  var _ = each(methods, function(length, method) {
    addMethod(length, method, attribute);
  });
};

// Add `create` and `destroy` to the Model.

class, prototype, methods, {`id`}: Backbone.Model = function(attributes, options) {
  var attrs = attributes || {};
  options || (options = {});

  // Run validation.
  if (!this._validate(attrs, options)) return false;

  // Extract attributes and options.
  unset = options.unset;
  silent = options.silent;
  changes = (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  if (key == null) return this;

  // Handle both `'key'`, `value` and `{key: value}`-style arguments.
  if (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  options || (options = {});

  // Check for changes of `id`.
  if (this.idAttribute in attrs) {
    this.changed[id] = val;
  } else {
    delete this.changed[id];
  }
  if (this.idAttribute in attrs) {
    this.id = this._previousAttributes = _.clone(this.attributes);
  }

  // Attach all inheritable methods to the Model prototype.
  this.initialize.apply(this, arguments);
};

// Attach all inheritable methods to the Model prototype.

class, prototype, Methods = addMethod(length, method, attribute);

// Add `create` and `destroy` to the Model.

class, prototype, methods, {`id`}: Backbone.Model = function(attributes, options) {
  var attrs = attributes || {};
  options || (options = {});

  // Run validation.
  if (!this._validate(attrs, options)) return false;

  // Extract attributes and options.
  unset = options.unset;
  silent = options.silent;
  changes = (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  if (key == null) return this;

  // Handle both `'key'`, `value` and `{key: value}`-style arguments.
  if (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  options || (options = {});

  // Check for changes of `id`.
  if (this.idAttribute in attrs) {
    this.changed[id] = val;
  } else {
    delete this.changed[id];
  }
  if (this.idAttribute in attrs) {
    this.id = this._previousAttributes = _.clone(this.attributes);
  }

  // Attach all inheritable methods to the Model prototype.
  this.initialize.apply(this, arguments);
};

// Attach all inheritable methods to the Model prototype.

class, prototype, Methods = addMethod(length, method, attribute);

// Add `create` and `destroy` to the Model.

class, prototype, methods, {`id`}: Backbone.Model = function(attributes, options) {
  var attrs = attributes || {};
  options || (options = {});

  // Run validation.
  if (!this._validate(attrs, options)) return false;

  // Extract attributes and options.
  unset = options.unset;
  silent = options.silent;
  changes = (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  if (key == null) return this;

  // Handle both `'key'`, `value` and `{key: value}`-style arguments.
  if (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  options || (options = {});

  // Check for changes of `id`.
  if (this.idAttribute in attrs) {
    this.changed[id] = val;
  } else {
    delete this.changed[id];
  }
  if (this.idAttribute in attrs) {
    this.id = this._previousAttributes = _.clone(this.attributes);
  }

  // Attach all inheritable methods to the Model prototype.
  this.initialize.apply(this, arguments);
};

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class, prototype, Methods = addMethod(length, method, attribute);

// Add `create` and `destroy` to the Model.

class, prototype, methods, {`id`}: Backbone.Model = function(attributes, options) {
  var attrs = attributes || {};
  options || (options = {});

  // Run validation.
  if (!this._validate(attrs, options)) return false;

  // Extract attributes and options.
  unset = options.unset;
  silent = options.silent;
  changes = (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  if (key == null) return this;

  // Handle both `'key'`, `value` and `{key: value}`-style arguments.
  if (typeof key === 'object') {
    attrs = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }

  options || (options = {});

  // Check for changes of `id`.
  if (this.idAttribute in attrs) {
    this.changed[id] = val;
  } else {
    delete this.changed[id];
  }
  if (this.idAttribute in attrs) {
    this.id = this._previousAttributes = _.clone(this.attributes);
  }

  // Attach all inheritable methods to the Model prototype.
  this.initialize.apply(this, arguments);
};
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// the core operation for updating the data contained by the collection.
set: function(models, options) {
  options = _.defaults({}, options, setOptions);
  if (options.parse) models = this.parse(models, options);
  var singular = !_.isArray(models);
  models = singular ? [models] : models;
  var id, model, attrs, existing, sort;
  var at = options.at; // if (at != null) at = +at; // if (at < 0) at += this.length + 1;
  var sortable = this.comparator && (at == null) && options.sort != false;
  var sortAttr = _.isString(this.comparator) ? this.comparator : null;
  var toAdd = [], toRemove = [], modelMap = {};
  var var add = options.add, merge = options.merge, remove = options.remove;
  var order = sortable && add && & & remove ? [] : false;
  var orderChanged = false;
  // Turn bare objects into model references, and prevent invalid models
  // from being added.
  for (var i = 0; i < models.length; i++) {
    if (sort) this.models.push(orderedModels[i]);
    id = this.modelId(model.attributes);
    if (order) this.models.length = 0;
    var singular ? models[0] : models[i];
    modelMap[id] = true;
  }
  // Remove nonexistent models if appropriate.
  if (remove) {
    modelMap = objectMap(map.models[i].cid);
    for (var i = 0; i < this.length; i++) {
      if (!modelMap[this.models[i].cid]) toRemove.push(model);
    }
    this.models.remove(model, options);
    return model;
  }
  // Do not add multiple models with the same 'id'.
  if (modelMap[_.id(obj)])
    return model;
  id = this.modelId(attributes);
  if (id in modelMap)
    return model;
  objectMap = this.models;
  var at = options.at;
  if (at != null) at = +at;
  toAdd = this.models.slice(at + i, 0, toAdd[i]);
  var options = _.defaults({}, options, setOptions);
  if (options.parse) models = this.parse(models, options);
  var model = options.parse ? this.models[i] : models;
  var attrs = model.attributes;
  if (attributes)
    attributes = this._prepareModel(attributes, options);
  if (id in modelMap)
    return model;
  id = this.modelId(attributes);
  if (id in modelMap)
    return model;
  model = this.models.push(orderedModels[i]);

  // Remove a model from the end of the collection.
  var toRemove = [], toAdd = [], modelMap = {};
  var order = sortable && add && & & remove ? [] : false;
  var orderChanged = false;
  // Turn bare objects into model references, and prevent invalid models
  // from being added.
  for (var i = 0; i < models.length; i++) {
    if (sort) this.models.push(orderedModels[i]);
    id = this.modelId(model.attributes);
    if (order) this.models.length = 0;
    var singular ? models[0] : models[i];
    modelMap[id] = true;
  }
  // Remove nonexistent models if appropriate.
  if (remove) {
    modelMap = objectMap(map.models[i].cid);
    for (var i = 0; i < this.length; i++) {
      if (!modelMap[this.models[i].cid]) toRemove.push(model);
    }
    this.models.remove(model, options);
    return model;
  }
  // Do not add multiple models with the same 'id'.
  if (modelMap[_.id(obj)])
    return model;
  id = this.modelId(attributes);
  if (id in modelMap)
    return model;
  model = this.models.push(orderedModels[i]);

  // When you have more items than you want to add or remove
  // individually,
  // you can reset the entire set with a new list of models, without firing
  // any granular `add` or `remove` events. Fires 'reset' when finished.
  // Useful for bulk operations and optimizations.
  reset: function(models, options) {
    options = options || {};
    this._reset();
    models = this.add(models, options);
    this._addReference(models, options);
    this.trigger('reset', this, options);
    return models;
  },

  // Add a model to the end of the collection.
  push: function(model, options) {
    return this.add([model], options);
  },

  // Add a model to the beginning of the collection.
  unshift: function(model, options) {
    return this.add([model], options);
  },

  // Slices out a sub-array of models from the collection.
  slice: function(options) {
    return slice.apply(this.models, arguments);
  },

  // Get a model from
  get: function(obj) {
    if (obj == null) return void 0;
    var id = };
this.modelId(this._isModel(obj)) ? obj.attributes : obj; return this._byId[obj] || this._byId[id];
},
},
// Get the model at the given index:
index at: function(index) {
  if (index < 0)
    index += this.length;
return this.models[index];
},;

// Return models with matching attributes. Useful for simple cases of
// 'filter'.
where: function(atts, first) {
  var matches = _.matches(atts);
  return this[first ? 'find' : 'filter'](function(model) {
    return matches(model.attributes);
  });
},;

// Return the first model with matching attributes. Useful for simple cases
// of 'find'.
findWhere: function(atts) {
  return this.where(atts, true);
},;

// Force the collection to re-sort itself. You don't need to call this under
// normal circumstances, as the set will maintain sort order as each item
// is added.
sort: function(options) {
  if (!this.comparator) throw new Error('Cannot sort a set without a comparator');
  options || (options = {});
  return this.models.sort(this.comparator, this);
},

models: function(options) {
  var removed = false;
  var models = this.models.slice(0);
  return removed;
},;

// Method for checking whether an object should be smaller, which is
// caused by some models not actually getting removed.
if (models.length !==
  this._removeReference(model, options);
  removed = true;
}
// We only need to slice if models array
// should be smaller, which is
// caused by some models not actually getting removed.
if (models.length !==
  j) models = models.slice(0, j);
return removed;
},

// Prepare a hash of
// attributes (or other model) to be added to this
// collection.
_prep: function(atts, options) {
  if (!this.comparator)
    return new this.constructor(models, {
      model: this.model,
      comparator: this.comparator
    });
},

// Define how to uniquely identify models in the
// collection.
modelId: function(atts) {
  return atts[this.model.prototype.idAttribute || 'id'];
},;

// Private method to reset all internal state. Called when the collection
// is first initialized or reset. The default implementation is just to pass it
// through.
reset: function(atts, options) {
  var model = this;
  modelId: function() {
    return model;
  },;

// Return the model at the given index.
models: function() {
  return this.models.splice(index, 1);
},

// Return this.models.indexOf(model);
// This is used for the 'remove' callback of
// `change: 'model'`.
indexOf: function(model) {
  return this.models.indexOf(model);
},;

// Get the model at the given index.
models: function(index) {
  return this.models[index];
},;

// Return this.models.slice(0, index);
slice: function(start, end) {
  return this.models.slice(start, end);
},;

// Return this.models.splice(index, 1);
splice: function(index, count) {
  return this.models.splice(index, count);
},;

// Return this.models.slice(index);
// This is used for the 'remove' callback of
// `change: 'model'`.
models: function(atts, options) {
  var removed = true;
  var models = this.models.slice(0);
  return removed;
},

// We only need to slice if models array
// should be smaller, which is
// caused by some models not actually getting removed.
if (models.length !==
  j) models = models.slice(0, j);
return removed;
},

// Return the first model with matching attributes. Useful for simple cases
// of 'find'.
findWhere: function(atts) {
  return this.where(atts, true);
},;

// Force the collection to re-sort itself. You don't need to call this under
// normal circumstances, as the set will maintain sort order as each item
// is added.
sort: function(options) {
  if (!this.comparator) throw new Error('Cannot sort a set without a comparator');
  options || (options = {});
  return this.models.sort(this.comparator, this);
},

models: function(options) {
  var removed = false;
  var models = this.models.slice(0);
  return removed;
},;

// Method for checking whether an object should be
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events on the new element.

    setElement: function(element) {
        this.undelegateEvents();
        this.$el.remove();
    },

    // Change the view's element (`this.el` property) and re-delegate the
    // view's
    // Exposed for subclasses using an alternative DOM
    // manipulation API.
    _removeElement: function() {
        return this;
    },

    // Remove this view's element from the document and all event listeners
    // attached to it.
    remove: function() {
        this._removeElement();
        this.stopListening();
        return this;
    },

    // Remove this view by taking the element out of the DOM, and removing any
    // applicable
    // HTML. The
    // convention is for **render** to always return `this`.
    render: function() {
        return this;
    },

    // A core function that your view should override, in order
    // to populate its element (`this.el`), with the appropriate
    // properties.
    initialize: function() {},

    // **render** is the
    // default `tagName` of a View's element is `"div"`.
    tagName: 'div',

    // jQuery delegate for element
    $.: function(selector) {
        return this.$el.find(selector);
    },

    // Initialize is an empty function
    lookup, scoped to DOM elements within the
    // current view. This should be preferred to global lookups where
    // properties.
    _.each(attributeMethods, function(method) {
        if (!_[method]) return;
    Collection.prototype_[method] = function(value, context) {
        var iterator = _isFunction(value) ? value : function(model) {
            return model.get(value);
        };
        return
    Collections is actually implemented
    // right here:
    var collectionMethods = { foreach: 3, each: 3, map: 3,
        collect: 3, reduce: 4, fold: 4, inject: 4, reduceRight: 4, foldr: 4, find: 3, detect: 3, filter: 3, select: 3, reject: 3, every: 3, all: 3, some: 3, any: 3, include: 2
    contains: 2, invoke: 2, max: 3, min: 3, toObject: 1, size: 1, first:
    3, head: 3, take: 3, initial: 3, rest: 3, tail: 3, drop: 3, last: 3,
    without: 0, difference: 0, indexOf: 3, shuffle: 1, lastIndexOf: 3, isEnumerable: 1, chain: 1, sample: 3, partition: 3
    },

    // Underscore methods that we want to implement on the Collection.
    // 90% of the core usefulness of Backbone
    // Collections is actually implemented
    var collectionMethods = { forEach: 3, each: 3, map: 3,
        collect: 3, reduce: 4, fold: 4, inject: 4, reduceRight: 4, foldr: 4, find: 3, detect: 3, filter: 3, select: 3, reject: 3, every: 3, all: 3, some: 3, any: 3, include: 2
    contains: 2, invoke: 2, max: 3, min: 3, toObject: 1, size: 1, first:
    3, head: 3, take: 3, initial: 3, rest: 3, tail: 3, drop: 3, last: 3,
    without: 0, difference: 0, indexOf: 3, shuffle: 1, lastIndexOf: 3, isEnumerable: 1, chain: 1, sample: 3, partition: 3
    },

    // Mix in each Underscore method as a proxy to 'Collection#models'.
    addUnderscoreMethods(Collection, collectionMethods, 'models');

    // Underscore methods that take a property name as an argument.
    var attributeMethods = ['groupBy', 'countBy', 'sortBy', 'indexBy'];

    // Use attributes instead of properties.
    _each(attributeMethods, function(method) {
        if (!_[method]) return;
    Collection.prototype_[method] = function(value, context) {
        var iterator = _isFunction(value) ? value : function(model) {
            return model.get(value);
        };
        return
    });

    // List of view options to be merged as
    // proxies.
    addUnderscoreMethods(viewOptions);
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```javascript
if (options.emulateJSON) {
  'application/json';
  params.data = JSON.stringify(options.attrs || model.toJSON(options));
}

// For
&& (method === 'create' || method === 'update' || method === 'patch')) {
  params.contentType = urlError();
}

// Ensure that we have the appropriate request data.
if (options.data == null && model

dataType: 'json'};

// Ensure that we have a URL.
if (!options.url) {
  params.url = _.result(model, 'url') ||

// Default JSON-request options.
var params = {type: type,以外

// Omitting the selector binds the event to 'this.el'.


// Add a single event listener to the view's element (or a child element) using
'selector'). This only works for workable-able events: not 'focus' // 'blur', and not 'change', 'submit', and 'reset' in Internet Explorer.

// Produces a DOM element to be assigned to your view. Exposed for
// subclasses using an alternative DOM manipulation API.

// Set callbacks, where
```

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```
params.contentType = 'application/x-www-form-urlencoded';\n
params.data = params.data ? {model:
params.data} : {};\n }\n\n // For older servers, emulate HTTP by mimicking the HTTP method with `_method`\n
// And an `X-HTTP-Method-Override` header.\n if (options.emulateHTTP && (type === 'PUT' || type ===
'DELETE' || type === 'PATCH')) {\n
params.type = 'POST';\n
if (options.emulateJSON) params.data._method
= type;\n
var beforeSend = options.beforeSend;\n
options.beforeSend = function(xhr) {\n
xhr.setRequestHeader('X-HTTP-Method-Override', type);\n
if (beforeSend) return beforeSend.apply(this,
arguments);\n
};\n }\n\n // Don't process data on a non-GET request.\n if (params.type !== 'GET' &&
!options.emulateJSON) {\n
params.processData = false;\n }\n\n // Pass along `textStatus` and `errorThrown`
from jQuery.\n var error = options.error;\n options.error = function(xhr, textStatus, errorThrown) {\n
options.textStatus = textStatus;\n
options.errorThrown = errorThrown;\n
if (error) error.call(options.context,
xhr, textStatus, errorThrown);\n };\n\n // Make the request, allowing the user to override any Ajax options.\n
var xhr = options.xhr = Backbone.ajax(_.extend(params, options));\n model.trigger('request', model, xhr,
options);\n return xhr;\n };\n\n // Map from CRUD to HTTP for our default `Backbone.sync` implementation.\n
var methodMap = {\n 'create': 'POST',\n 'update': 'PUT',\n 'patch': 'PATCH',\n 'delete': 'DELETE',\n 'read':
'GET'\n };\n\n // Set the default implementation of `Backbone.ajax` to proxy through to `$`.\n // Override this if
you'd like to use a different library.\n Backbone.ajax = function() {\n return Backbone.$.ajax.apply(Backbone.$,
arguments);\n };\n\n // Backbone.Router\n // ---------------\n\n // Routers map faux-URLs to actions, and fire
events when routes are\n // matched. Creating a new one sets its `routes` hash, if not set statically.\n var Router =
Backbone.Router = function(options) {\n options || (options = {});\n if (options.routes) this.routes =
options.routes;\n this._bindRoutes();\n this.initialize.apply(this, arguments);\n };\n\n // Cached regular
expressions for matching named param parts and splatted\n // parts of route strings.\n var optionalParam =
/\\((.*?)\\)/g;\n var namedParam = /(\\(\\?)?:\\w+/g;\n var splatParam = /\\*\\w+/g;\n var escapeRegExp = /[\\{}\\[\\]+?.,\\\\\\^$|#\\s]/g;\n\n // Set up all inheritable **Backbone.Router** properties and methods.\n
_.extend(Router.prototype, Events, {\n\n // Initialize is an empty function by default. Override it with your own\n
// initialization logic.\n initialize: function(){},\n\n // Manually bind a single named route to a callback. For
example:\n //\n // this.route('search/:query/p:num', 'search', function(query, num) {\n //
...\n // });\n
//\n route: function(route, name, callback) {\n
if (!_.isRegExp(route)) route = this._routeToRegExp(route);\n
if (_.isFunction(name)) {\n
callback = name;\n
name = '';\n
}\n
if (!callback) callback = this[name];\n
var router = this;\n
Backbone.history.route(route, function(fragment) {\n
var args =
router._extractParameters(route, fragment);\n
if (router.execute(callback, args, name) !== false) {\n
router.trigger.apply(router, ['route:' + name].concat(args));\n
router.trigger('route', name, args);\n
Backbone.history.trigger('route', router, name, args);\n
}\n
});\n
return this;\n },\n\n // Execute a route
handler with the provided parameters. This is an\n // excellent place to do pre-route setup or post-route cleanup.\n
execute: function(callback, args, name) {\n
if (callback) callback.apply(this, args);\n },\n\n // Simple proxy to
`Backbone.history` to save a fragment into the history.\n navigate: function(fragment, options) {\n
Backbone.history.navigate(fragment, options);\n
return this;\n },\n\n // Bind all defined routes to
`Backbone.history`. We have to reverse the\n // order of the routes here to support behavior where the most
general\n // routes can be defined at the bottom of the route map.\n _bindRoutes: function() {\n
if
(!this.routes) return;\n
this.routes = _.result(this, 'routes');\n
var route, routes = _.keys(this.routes);\n
while
((route = routes.pop()) != null) {\n
this.route(route, this.routes[route]);\n
}\n },\n\n // Convert a route
string into a regular expression, suitable for matching\n // against the current location hash.\n _routeToRegExp:
function(route) {\n
route = route.replace(escapeRegExp, '\\\\$&')\n
.replace(optionalParam,
'(?:$1)?')\n
.replace(namedParam, function(match, optional) {\n
return optional ? match :
'([^/?]+)';\n
})\n
.replace(splatParam, '([^?]*?)');\n
return new RegExp('^' + route +
'(?:\\\\?([\\\\s\\\\S]*))?$');\n },\n\n // Given a route, and a URL fragment that it matches, return the array of\n //
extracted decoded parameters. Empty or unmatched parameters will be\n // treated as `null` to normalize crossbrowser behavior.\n _extractParameters: function(route, fragment) {\n
var params =
route.exec(fragment).slice(1);\n
return _.map(params, function(param, i) {\n
// Don't decode the search

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but not `pushState`.

```javascript
if (!this._hasHashChange &
    & !this._usePushState) {
  var iframe = document.createElement('iframe');
  iframe.src = 'javascript:0';
  iframe.style.display = 'none';
  iframe.tabIndex = -1;
  var body = document.body;
  // Using `appendChild` will throw on IE < 9 if the document is not ready.
  this iframe = body.insertBefore(iframe, body.firstChild).contentWindow;
  this iframe.document.open().close();
  this iframe.location.hash = '#' + this.fragment;
}

// Add a cross-platform `addEventListener` shim for older browsers.
var addEventListener = window.addEventListener || function (eventName, listener) {
  return attachEvent('on' + eventName, listener);
};

// Depending on whether we're using pushState or hashes, and whether
// `onhashchange` is supported, determine how we check the URL state.
if (this._usePushState) {
  addEventListener('popstate', false);
} else if (this._useHashChange &
    & !this iframe) {
  addEventListener('hashchange', this.checkUrl, false);
} else if (this._wantsHashChange) {
  this._checkUrlInterval = setInterval(this.checkUrl, this.interval);
}

if (!this.options.silent) return this.loadUrl();

// Disable Backbone.history, perhaps temporarily. Not useful in a real app,
// but possibly useful for unit testing Routers.
stop: function() {
  // Add a cross-platform `removeEventListner` shim for older browsers.
  var removeEventListener = window.removeEventListener || function (eventName, listener) {
    return detachEvent('on' + eventName, listener);
  };

  // Remove window listeners.
  if (this._usePushState) {
    removeEventListener('popstate', this.checkUrl, false);
  } else if (this._useHashChange &
    & !this iframe) {
    removeEventListener('hashchange', this.checkUrl, false);
  }

  // Clean up the iframe if necessary.
  if (this iframe) {
    document.body.removeChild(this iframe.frameElement);
    this iframe = null;
  }

  // Some environments will throw when clearing an undefined interval.
  if (this._checkUrlInterval)
    clearInterval(this._checkUrlInterval);
  History.started = false;
}

// Add a route to be tested when the fragment changes. Routes added later
// may override previous routes.
route: function(route, callback) {
  this.handlers.unshift({route: route, callback: callback});
}

// Checks the current URL to see if it has changed, and if it has,
// calls `loadUrl`, normalizing across the hidden iframe.
checkUrl: function(e) {
  var current = this.getFragment();
  // If the user pressed the back button, the iframe's hash will have
  // changed and we should use that for comparison. If (current === this.fragment &
  & this iframe) {
    current = this.getHash(this iframe);
  }

  if (current === this.fragment &
      & this iframe) {
    return false;
  }

  // Attempt to load the current URL fragment. If a route succeeds
  // with an
  // match, returns `true`. If no defined routes matches the fragment,
  // returns `false`.
  loadUrl: function(fragment) {
    // If the root doesn't match, no routes can match either.
    if (!this.matchRoot()) return false;

    fragment = this fragment = this.getFragment(fragment);
    return
  }

  // Save a fragment into the hash history,
  // or replace the URL state if the\n  // `replace` option is passed. You are responsible for properly URL-encoding\n  // the fragment in advance.
  replace: function(fragment) {
    // The options object can contain `trigger: true` if you wish to have the\n    // route callback be fired (not usually desirable), or `replace: true`, if\n    // you wish to modify the current URL without adding an entry to the history.\n    navigate: function(fragment, options) {
      if (!History.started) return false;
      if (options || options === true) options = {trigger: !!options};
      if (options options === true) options = {trigger: true};
      Normalize the fragment.\n    // Some environments will throw when clearing an undefined interval.
    if (this._checkUrlInterval)
      clearInterval(this._checkUrlInterval);
    History.started = false;
    }

    // Add a cross-platform `removeEventListner` shim for older browsers.
    var removeEventListener = window.removeEventListener || function (eventName, listener) {
      return detachEvent('on' + eventName, listener);
    };

    // Depending on whether we're using pushState or hashes, and whether
    // `onhashchange` is supported, determine how we check the URL state.
    if (this._usePushState) {
      addEventListener('popstate', false);
    } else if (this._useHashChange &
      & !this iframe) {
      addEventListener('hashchange', this.checkUrl, false);
    } else if (this._wantsHashChange) {
      this._checkUrlInterval = setInterval(this.checkUrl, this.interval);
    }

    // If hash changes haven't been explicitly disabled, update the hash\n    // fragment to store history.
    if (this _usePushState) {
      this history[options replace ? 'replaceState' : 'pushState']({ }, document.title, url);
    } else if (this._wantsHasChange) {
      this _updateHash(this.location, fragment, options replace);
    }
    if (this iframe && (fragment !== this getHash(this iframe))) {
      // Opening and closing the iframe tricks IE7 and earlier to push\n      // history entry on hash-tag change. When replace is true, we don't\n      // want this.
```
numeric identifier.

```javascript
var PRERELEASEIDENTIFIER = R++;
src[PRERELEASEIDENTIFIER] = '(?:' +
                            src[NUMERICIDENTIFIER] +
                            '|' + src[NONNUMERICIDENTIFIER] + ')';

var PRERELEASEIDENTIFIERLOOSE = R++;
src[PRERELEASEIDENTIFIERLOOSE] = '(?:' +
                                 src[NUMERICIDENTIFIERLOOSE] +
                                 '|' + src[NONNUMERICIDENTIFIER] + ')';

// Pre-release Version\n// Hyphen, followed by one or more dot-separated pre-release version\n// identifiers.\n
var PRERELEASE = R++;
src[PRERELEASE] = '(?:-(' +
                    src[PRERELEASEIDENTIFIER] +
                    '(?:\\.' +
                    src[PRERELEASEIDENTIFIER] + ')*))';

var PRERELEASELOOSE = R++;
src[PRERELEASELOOSE] = '(?:-(' +
                      src[PRERELEASEIDENTIFIERLOOSE] +
                      '(?:\\.' +
                      src[PRERELEASEIDENTIFIERLOOSE] + ')*))';

// ## Build Metadata Identifier
// Any combination of digits, letters, or hyphens.\n
var BUILDIDENTIFIER = R++;
src[BUILDIDENTIFIER] = '[0-9A-Za-z-]+';

// ## Full Version String\n// A main version, followed optionally by a pre-release
// version and\n// build metadata.\n
var FULLPLAIN = '[v=\\s]*' + src[MAINVERSIONLOOSE] +
                src[PRERELEASE] + '?' +
                src[BUILD] + '?';

var LOOSEPLAIN = '[v=\\s]*' + src[MAINVERSION] +
                 src[PRERELEASE] + '?' +
                 src[BUILD] + '?';

var XRANGEPLAIN = '[v=\\s]*(' + src[XRANGEIDENTIFIER] +
                  '(?:\\.(' +
                  src[XRANGEIDENTIFIER] + ')' +
                  '(?:\\.(' + src[XRANGEIDENTIFIER] + ')' +
                  '(?:' +
                  src[PRERELEASE] + ')?' +
                  src[BUILD] + '?' +
                  ')?)?';

var XRANGEPLAINLOOSE = '[v=\\s]*(' + src[XRANGEIDENTIFIERLOOSE] +
                       '(?:\\.(' +
                       src[XRANGEIDENTIFIERLOOSE] +
                       '(?:\\.(' +
                       src[XRANGEIDENTIFIERLOOSE] +
                       '(?:' + src[PRERELEASELOOSE] + ')?')?\n                       src[BUILD] + '?')?\n                       ')?\n                       ')?\n                       ');
LOOSEPLAIN + '|' + src[XRANGEPLAIN] + ')';\n\n// this one has to use the /g flag\nre[COMPARATORTRIM] =
new RegExp(src[COMPARATORTRIM], 'g');\nvar comparatorTrimReplace = '$1$2$3';\n\n\n// Something like
`1.2.3 - 1.2.4`\n// Note that these all use the loose form, because they'll be\n// checked against either the strict or
loose comparator form\n// later.\nvar HYPHENRANGE = R++;\nsrc[HYPHENRANGE] = '^\\\\s*(' +
src[XRANGEPLAIN] + ')' +\n
'\\\\s+-\\\\s+' +\n
'(' + src[XRANGEPLAIN] + ')' +\n
'\\\\s*$';\n\nvar HYPHENRANGELOOSE = R++;\nsrc[HYPHENRANGELOOSE] = '^\\\\s*(' +
src[XRANGEPLAINLOOSE] + ')' +\n
'\\\\s+-\\\\s+' +\n
'(' +
src[XRANGEPLAINLOOSE] + ')' +\n
'\\\\s*$';\n\n// Star ranges basically just allow anything at
all.\nvar STAR = R++;\nsrc[STAR] = '(<|>)?=?\\\\s*\\\\*';\n\n// Compile to actual regexp objects.\n// All are flagfree, unless they were created above with a flag.\nfor (var i = 0; i < R; i++) {\n debug(i, src[i]);\n if (!re[i])\n re[i]
= new RegExp(src[i]);\n}\n\nexports.parse = parse;\nfunction parse(version, loose) {\n if (version instanceof
SemVer)\n return version;\n\n if (typeof version !== 'string')\n return null;\n\n if (version.length >
MAX_LENGTH)\n return null;\n\n var r = loose ? re[LOOSE] : re[FULL];\n if (!r.test(version))\n return
null;\n\n try {\n return new SemVer(version, loose);\n } catch (er) {\n return null;\n }\n}\n\nexports.valid =
valid;\nfunction valid(version, loose) {\n var v = parse(version, loose);\n return v ? v.version :
null;\n}\n\n\nexports.clean = clean;\nfunction clean(version, loose) {\n var s =
parse(version.trim().replace(/^[=v]+/, ''), loose);\n return s ? s.version : null;\n}\n\nexports.SemVer =
SemVer;\n\nfunction SemVer(version, loose) {\n if (version instanceof SemVer) {\n if (version.loose ===
loose)\n
return version;\n else\n
version = version.version;\n } else if (typeof version !== 'string') {\n
throw new TypeError('Invalid Version: ' + version);\n }\n\n if (version.length > MAX_LENGTH)\n throw new
TypeError('version is longer than ' + MAX_LENGTH + ' characters')\n\n if (!(this instanceof SemVer))\n return
new SemVer(version, loose);\n\n debug('SemVer', version, loose);\n this.loose = loose;\n var m =
version.trim().match(loose ? re[LOOSE] : re[FULL]);\n\n if (!m)\n throw new TypeError('Invalid Version: ' +
version);\n\n this.raw = version;\n\n // these are actually numbers\n this.major = +m[1];\n this.minor = +m[2];\n
this.patch = +m[3];\n\n if (this.major > MAX_SAFE_INTEGER || this.major < 0)\n throw new TypeError('Invalid
major version')\n\n if (this.minor > MAX_SAFE_INTEGER || this.minor < 0)\n throw new TypeError('Invalid
minor version')\n\n if (this.patch > MAX_SAFE_INTEGER || this.patch < 0)\n throw new TypeError('Invalid
patch version')\n\n // numberify any prerelease numeric ids\n if (!m[4])\n this.prerelease = [];\n else\n
this.prerelease = m[4].split('.').map(function(id) {\n
if (/^[0-9]+$/.test(id)) {\n
var num = +id;\n
if (num
>= 0 && num < MAX_SAFE_INTEGER)\n
return num;\n
}\n
return id;\n });\n\n this.build = m[5] ?
m[5].split('.') : [];\n this.format();\n}\n\nSemVer.prototype.format = function() {\n this.version = this.major + '.' +
this.minor + '.' + this.patch;\n if (this.prerelease.length)\n this.version += '-' + this.prerelease.join('.');\n return
this.version;\n};\n\nSemVer.prototype.toString = function() {\n return
this.version;\n};\n\nSemVer.prototype.compare = function(other) {\n debug('SemVer.compare', this.version,
this.loose, other);\n if (!(other instanceof SemVer))\n other = new SemVer(other, this.loose);\n\n return
this.compareMain(other) || this.comparePre(other);\n};\n\nSemVer.prototype.compareMain = function(other) {\n if
(!(other instanceof SemVer))\n other = new SemVer(other, this.loose);\n\n return compareIdentifiers(this.major,
other.major) ||\n
compareIdentifiers(this.minor, other.minor) ||\n
compareIdentifiers(this.patch,
other.patch);\n};\n\nSemVer.prototype.comparePre = function(other) {\n if (!(other instanceof SemVer))\n other
= new SemVer(other, this.loose);\n\n // NOT having a prerelease is > having one\n if (this.prerelease.length &&
!other.prerelease.length)\n return -1;\n else if (!this.prerelease.length && other.prerelease.length)\n return 1;\n
else if (!this.prerelease.length && !other.prerelease.length)\n return 0;\n\n var i = 0;\n do {\n var a =
this.prerelease[i];\n var b = other.prerelease[i];\n debug('prerelease compare', i, a, b);\n if (a === undefined
&& b === undefined)\n
return 0;\n else if (b === undefined)\n
return 1;\n else if (a === undefined)\n
return -1;\n else if (a === b)\n
continue;\n else\n
return compareIdentifiers(a, b);\n } while (++i);\n};\n\n//
preminor will bump the version up to the next minor release, and immediately\n// down to pre-release. premajor and
prepatch work the same way.\nSemVer.prototype.inc = function(release, identifier) {\n switch (release) {\n case
'premajor':\n
this.prerelease.length = 0;\n
this.patch = 0;\n
this.minor = 0;\n
this.major++;\n

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b, loose) <= 0;\n} \n\nexports.cmp = cmp;\nfunction cmp(a, op, b, loose) {\n  var ret;\n  switch (op) {\n    case '===':\n      if (typeof a === 'object') a = a.version;\n      if (typeof b === 'object') b = b.version;\n      ret = a === b;\n    break;\n    case '!=':\n      if (typeof a === 'object') a = a.version;\n      if (typeof b === 'object') b = b.version;\n      ret = a !== b;\n    break;\n    case '<=':\n      ret = gte(a, b, loose);\n    break;\n    case '>=':\n      ret = lte(a, b, loose);\n    break;\n  }\n  return ret;\n}\n
exports.Comparator = Comparator;\nfunction Comparator(comp, loose) {\n  if (comp instanceof Comparator) {\n    if (comp.loose === loose)\n      return comp;\n    else\n      comp = comp.value;\n  }\n  if (!(this instanceof Comparator))\n    return new Comparator(comp, loose);\n  debug('comparator', comp, loose);\n  this.loose = loose;\n  this.parse(comp);\n  this.semver = ANY;\n  this.value = this.operator + this.semver;\n  return this;\n}\n
var ANY = {};\nComparator.prototype.toString = function() { \n  return this.value;\n}\nexports.Comparator.prototype.toString = function() { \n  return this.value;\n}\n
Range.prototype.toString = function() { \n  return this.range;\n}\n
function Range(range, loose) {\n  if ((range instanceof Range) && range.loose === loose)\n    return range;\n  if (!(this instanceof Range))\n    return new Range(range, loose);\n  this.loose = loose;\n  this.raw = range;\n  this.set = range.split(/\s*\|\|\s*/).map(function(range) {\n    return this.parseRange(range.trim());\n  }, this).filter(function(c) {\n    return c.length;\n  });\n  if (!this.set.length) {\n    throw new TypeError('Invalid SemVer Range: ' + range);\n  }\n  this.format();\n}\n
Range.prototype.format = function() {\n  this.range = this.set.map(function(comps) {\n    return comps.join(' ').trim();\n  }).join('||').trim();\n  return this.range;\n}\n
Range.prototype.parseRange = function(range) {\n  var loose = this.loose;\n  range = range.trim();\n  // `1.2.3 - 1.2.4` => `>=1.2.3 <=1.2.4`\n  // in loose mode, throw out any that are not relevant for whatever reason\n  var c;\n  this.set = range.split(/\s+/).map(function(range) {\n    return this.parseRange(range.trim());\n  }, this).filter(function(c) {\n    return c.length;\n  });\n  if (!this.set.length) {\n    throw new TypeError('Invalid SemVer Range: ' + range);\n  }\n  this.format();\n  return this;\n}\n
// mostly just for testing and legacy API reasons\nexports.Range.prototype.toSet = function() { \n  return this.set;\n}\n
function parseComparator(comp, loose) {\n  debug('comp', comp);\n  comp = replaceCarets(comp, loose);\n  debug('caret', comp);\n  comp = replaceTildes(comp, loose);\n  debug('tildes', comp);\n  comp = replaceXRanges(comp, loose);\n  debug('xrange', comp);\n  comp = replaceStars(comp, loose);\n  debug('stars', comp);\n  return comp;\n}\n
function isX(id) { \n  return !id || id.toLowerCase() === 'x' || id === '*';\n}\n
// ~, ~> --> * (any, kinda silly)\n// ~2, ~2.x, ~2.x.x, ~>2, ~>2.x, ~>2.x.x \n  --> >=2.0.0 <3.0.0\n// ~2.0, ~2.0.x, ~>2.0, ~>2.0.x --> >=2.0.0 <2.1.0\n// ~1.2, ~1.2.x, ~>1.2, ~>1.2.x --> >=1.2.0
<1.3.0/n\~ 1.2.3, >1.2.3 \~\doteq 1.2.3 <1.3.0/n\~ 1.2.0, >1.2.0 \~\doteq 1.2.0 <1.3.0/n
function replaceTildes(comp, loose) { var return comp.trim().split(/\s+/).map(function(comp) { return replaceTildes(comp, loose); }); join(' '); }

\n
function replaceTildes(comp, loose) { var r = loose ? re[TILDELOOSE] : re[TILDE];

return comp.replace(r, function(_, M, m, p, pr) { return debug('tildes', comp, _, M, m, p, pr); });

var ret; if (isX(M)) ret = ''; else if (isX(M)) ret = '>=' + M + '.' + m + '.' + p + pr + (isX(M) ? ' - ' + pr : ''); else if (isX(m)) ret = '>=' + M + '.' + (+m + 1) + '.0';

else if (isX(p)) ret = '>=' + M + '.' + m + '.' + (+p + 1) + '.0';

else ret = '>=' + M + '.' + m + '.' + p + pr + (isX(M) ? ' - ' + pr : '');

if (pr.charAt(0) === '-') pr = '-' + pr;

return '>=' + M + '.' + m + '.' + p + pr + ' <' + M + '.' + (+m + 1) + '.0';
}

debug('tilde return', ret);

return ret;
}

function replaceStars(comp, loose) {
  debug('replaceStars', comp, loose);
  // Looseness
  return comp.trim().split(/\s+/).map(function(comp) {
    return replaceStars(comp, loose);
  }).join(' ');
}

// Because * is AND-ed with everything else in the comparator, \n/ and " means \"any version\", just
remove the *s entirely.
function replaceStars(comp, loose) {
  return comp.replace(r, function(_, M, m, p, pr) {
    debug('stars', comp, _, M, m, p, pr);
    var ret;

    if (isX(M))
      ret = ''; else if (isX(m))
      ret = '>=' + M + '.0.0 <' + M + '.' + (+m + 1) + '.0';

      else if (isX(p))
        ret = '>=' + M + '.' + m + '.' + (+p + 1) + '.0';
    
    return ret;
  });
}

function hyphenReplace($0, from, to, \n) {
  var ret = '\n' if (isX(from))
    from = ''; else if (isX(to))
      to = ''; else if (isX($0))
        $0 = ''; else if (isX(fm))
          fm = ''; else if (isX(fp))
            fp = ''; else if (isX(fb))
              fb = ''; else if (isX(tm))
                tm = ''; else if (isX(tp))
                  tp = ''; else if (isX(tb))
                    tb = '';

    return $0;
}

// This function is passed to string.replace(re[HYPHENRANGE]);\n/ M, m, patch, prerelease, build;\n/ 1.2 - 3.4.5 => >\doteq 1.2.0 <3.4.5/n\~ 1.2.3 - 3.4 => >\doteq 1.2.0 <3.5.0

Any 3.4.x will do;\n/ 1.2 - 3.4 => >\doteq 1.2.0 <3.5.0

function hyphenReplace($0, from, fm, fp, fb, \n) {
  var ret = '\n' if (isX(from))
    from = ''; else if (isX(fm))
      fm = ''; else if (isX(fp))
        fp = ''; else if (isX(fb))
          fb = ''; else if (isX(tm))
            tm = ''; else if (isX(tp))
              tp = ''; else if (isX(tb))
                tb = '';

    return $0;
}

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```javascript
var queue = [];
var draining = false;
var currentQueue;
var cachedClearTimeout = clearTimeout;
  } catch (e) {
    cachedClearTimeout = function () {
      throw new Error('clearTimeout is not defined');
    }
  }
  try {
    cachedSetTimeout = setTimeout;
  } catch (e) {
    cachedSetTimeout = function () {
      throw new Error('setTimeout is not defined');
    }
  }
  try {
    function () {
      try {
        cachedSetTimeout = setTimeout;
      } catch (e) {
        cachedSetTimeout = function () {
          throw new Error('setTimeout is not defined');
        }
      }
      try {
        function () {
          throw new Error('setTimeout is not defined');
        }
      }
    }
  }
  try {
    function () {
      throw new Error('setTimeout is not defined');
    }
  }
  try {
    function () {
      throw new Error('setTimeout is not defined');
    }
  }
  try {
    function () {
      throw new Error('setTimeout is not defined');
    }
  }
```
queueIndex = -1;

function cleanUpNextTick() {
    if (!draining || !currentQueue) {
        return;
    }
    draining = false;

    if (arguments.length > 1) {
        var i;
        for (i = arguments.length - 1; i > -1; i--) {
            arguments[i] = arguments[i].itemQueue;
        }
    }
    queue = currentQueue.concat(queue);
    currentQueue = null;
}

function drainQueue() {
    if (draining) {
        return;
    }
    var timeout = cachedSetTimeout(cleanUpNextTick);
    draining = true;

    var len = queue.length;
    while (len) {
        currentQueue = queue;
        queue = [];
        while (++queueIndex < len) {
            if (currentQueue) {
                currentQueue[queueIndex].run();
            }
        }
        queueIndex = -1;
        len = queue.length;
    }
    currentQueue = null;
    draining = false;
    cachedClearTimeout(timeout);
}

process.nextTick = function (fun) {
    var args = new Array(arguments.length - 1);
    var i;
    for (i = 1; i < arguments.length; i++) {
        args[i - 1] = arguments[i];
    }
    queue.push(new Item(fun, args));
    if (queue.length === 1 && !draining) {
        cachedSetTimeout(drainQueue, 0);
    }
};

function Item(fun, array) {
    this.fun = fun;
    this.array = array;
}
Item.prototype.run = function () {
    this.fun.apply(null, this.array);
};
process.title = 'browser';
process.browser = true;
process.env = {};
process.argv = [];
process.version = ''; // empty string to avoid regexp issues
process.versions = {};

function noop() {}
function generateEmbedScript(widgetState, imageDataUrl) {
  return [
      '<img src=' + imageDataUrl + ' class="jupyter-widget">',
      '<script type="application/vnd.jupyter-embedded-widgets">' + JSON.stringify(widgetState) + '</script>'
  ].join('\n');
}

module.exports = {
  generateEmbedScript: generateEmbedScript,
};
we miss out on the 'sync' event.

```javascript
function(attrs, callbacks) { // prepare and send a comm message syncing attrs
    var that = this;
    var serialized = this.constructor.serializers; // first, build a state dictionary with key=the attribute and the value= its serialized value
    var serializers = this.constructor.serializers;
    if (serializers) {
        if (serializers[k] && serializers[k].serialize) {
            attrs[k] = serializers[k].serialize(attrs[k], this);
        }
    }

    var buffers = []; // get binary values, then send
    var buffers = Object.keys(state).forEach(function(key) { var buffer_keys = [];
println
```
this.callbacks(), buffers);\n },\n\n touch: function () {\n
this.model.save_changes(this.callbacks());\n },\n\n
remove: function () {\n
// Raise a remove event when the view is removed.\n
WidgetView.__super__.remove.apply(this, arguments);\n
this.trigger('remove');\n }\n};\n\nvar
DOMWidgetModel = WidgetModel.extend({\n defaults: _.extend({}, WidgetModel.prototype.defaults, {\n
layout: undefined,\n
visible: true,\n
_dom_classes: [],\n\n
// Deprecated attributes\n
color: null,\n
background_color: null,\n
font_style: \"\",\n
font_family: \"\",\n
font_weight: \"\",\n
font_size:
\"\",\n }),\n}, {\n serializers: _.extend({\n
layout: {deserialize: unpack_models},\n },
WidgetModel.serializers),\n});\n\nvar DOMWidgetViewMixin = {\n initialize: function (parameters) {\n
/**\n
* Public constructor\n
*/\n
WidgetViewMixin.initialize.apply(this, [parameters]);\n
this.id =
utils.uuid();\n\n
this.listenTo(this.model, 'change:visible', this.update_visible, this);\n\n
this.listenTo(this.model, 'change:_dom_classes', function(model, new_classes) {\n
var old_classes =
model.previous('_dom_classes');\n
this.update_classes(old_classes, new_classes);\n
}, this);\n\n
this.layoutPromise = Promise.resolve();\n
this.listenTo(this.model, \"change:layout\", function(model, value)
{\n
this.setLayout(value, model.previous('layout'));\n
});\n\n
this.displayed.then(_.bind(function()
{\n
this.update_visible(this.model, this.model.get(\"visible\"));\n
this.update_classes([],
this.model.get('_dom_classes'));\n
this.setLayout(this.model.get('layout'));\n
}, this));\n },\n\n
setLayout: function(layout, oldLayout) {\n
var that = this;\n
if (layout) {\n
this.layoutPromise =
this.layoutPromise.then(function(oldLayoutView) {\n
if (oldLayoutView) {\n
oldLayoutView.unlayout();\n
}\n\n
return that.create_child_view(layout).then(function(view)
{\n\n
// Trigger the displayed event of the child view.\n
return that.displayed.then(function()
{\n
view.trigger('displayed', that);\n
return view;\n
});\n
}).catch(utils.reject(\"Couldn't add LayoutView to DOMWidgetView\", true));\n
});\n
}\n },\n\n
update_visible: function(model, value) {\n
/**\n
* Update visibility\n
*/\n
switch(value) {\n
case null:\n
if (this._old_display !== undefined) {\n
this.el.style.display = this._old_display;\n
}\n
this.el.style.visibility = 'hidden'; break;\n
case false:\n
this._old_display =
this.el.style.display || '';\n
this.el.style.display = 'none'; break;\n
case true:\n
if
(this._old_display !== undefined) {\n
this.el.style.display = this._old_display;\n
}\n
this.el.style.visibility = ''; break;\n
}\n },\n\n update_classes: function (old_classes, new_classes, el) {\n
/**\n
* Update the DOM classes applied to an element, default to this.el.\n
*/\n
if (el===undefined)
{\n
el = this.el;\n
}\n
_.difference(old_classes, new_classes).map(function(c) {\n
if
(el.classList) { // classList is not supported by IE for svg elements\n
el.classList.remove(c);\n
} else
{\n
el.setAttribute(\"class\", el.getAttribute(\"class\").replace(c, \"\"));\n
}\n
});\n
_.difference(new_classes, old_classes).map(function(c) {\n
if (el.classList) { // classList is not supported by
IE for svg elements\n
el.classList.add(c);\n
} else {\n
el.setAttribute(\"class\",
el.getAttribute(\"class\").concat(\" \", c));\n
}\n
});\n },\n\n update_mapped_classes:
function(class_map, trait_name, el) {\n
/**\n
* Update the DOM classes applied to the widget based on a
single\n
* trait's value.\n
*\n
* Given a trait value classes map, this function automatically\n
*
handles applying the appropriate classes to the widget element\n
* and removing classes that are no longer
valid.\n
*\n
* Parameters\n
* ----------\n
* class_map: dictionary\n
* Dictionary of trait
values to class lists.\n
* Example:\n
*
{\n
*
success: ['alert', 'alert-success'],\n
*
info: ['alert', 'alert-info'],\n
*
warning: ['alert', 'alert-warning'],\n
*
danger: ['alert', 'alertdanger']\n
*
};\n
* trait_name: string\n
* Name of the trait to check the value of.\n
* el:
optional DOM element handle, defaults to this.$el\n
* Element that the classes are applied to.\n
*/\n
var key = this.model.previous(trait_name);\n
var old_classes = class_map[key] ? class_map[key] : [];\n
key
= this.model.get(trait_name);\n
var new_classes = class_map[key] ? class_map[key] : [];\n\n
this.update_classes(old_classes, new_classes, el || this.el);\n },\n\n typeset: function(element, text){\n
utils.typeset.apply(null, arguments);\n },\n};\n\n\nvar ViewList = function(create_view, remove_view, context)
{\n /**\n * - create_view and remove_view are default functions called when adding or removing views\n * -

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create_view takes a model and returns a view or a promise for a view for that model
- remove_view takes a view and destroys it (including calling `view.remove()`) - each time the update() function is called with a new list, the create and remove
- callbacks will be called in the new order so that if you append the views created in the
- create callback and remove the views in the remove callback, you will duplicate
- the order of the list
- the remove callback defaults to just removing the view (e.g., pass in null for the second parameter)
- the context for callbacks is the created ViewList. If you pass another context, the create and remove callbacks will be called in that context.
* `this.initialize.apply(this, arguments);`:

```
this._create_view = function(create_view, remove_view, context) {
    this.views = []; // list of promises for views
    this._create_view = create_view;
    this._remove_view = remove_view;
    context = context || this;
    var i = 0;
    // first, skip past the beginning of the lists if they are identical for:
    for (i < new_models.length; i++) {
        if (i >= this._models.length || new_models[i] !== this._models[i]) {
            break;
        }
    }
    var first_removed = i;
    // Remove the non-matching items from the old list.
    var removed = this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
    // Add the rest of the new list items for (i < new_models.length; i++) {
    this.views.push(Promise.resolve(create.call(context, new_models[i])));}
    // make a copy of the input array
    this._models = new_models.slice();
    // remove: function() {
    this.views.splice(first_removed, this.views.length-first_removed);
    for (var j = 0; j < removed.length; j++) {
        removed[j].then(function(view) {
            remove.call(context, view);
        });
    }
```

```
Handles and validates user input.

```javascript
ToggleButtonView.__super__.update.apply(this);

handle_click: function(e) {
    /**
     * Called when view is rendered.
     */
    var that = this;
    this.setElement($('<button
        button_style: "",
    }),
});

var ToggleButtonView = widget.DOMWidgetView.extend({
    render: function()
```
* model to update.

    var value = this.model.get('value');
    this.model.set('value', ! value,
    {updated_view: this});
    this.touch();
    this.$el.removeClass('invalid');
    this.$el.removeClass('valid');
    this.$el.removeClass('invalid');
    this.$el.removeClass('valid');
    this.$el.toggleClass('valid');

* update function.

    var value = this.model.get('value');
    this.model.set('value', ! value,
    {updated_view: this});
    this.touch();
}

var ValidModel = BoolModel.extend({
    defaults: _.extend({}, BoolModel.prototype.defaults, { readout: "Valid" }),
    _view_name: "ValidView",
    _model_name: "ValidModel"
});

var ValidView = widget.DOMWidgetView.extend({
    render: function() {
        var icon, color, readout;
        if (this.model.get("value")) {
            icon = "fa-check";
            color = "green";
            readout = "";
        } else {
            icon = "fa-close";
            color = "red";
            readout = this.model.get("readout");
        }
        this.$el.text(readout);
        $('<i class="fa"></i>').prependTo(this.$el).addClass(icon);
        var that = this;
        this.displayed.then(function() {
            that.$el.css("color", color);
        });
    }
});

module.exports = {
    BoolModel: BoolModel,
    CheckboxModel: CheckboxModel,
    CheckboxView: CheckboxView,
    ToggleButtonModel: ToggleButtonModel,
    ToggleButtonView: ToggleButtonView,
    ValidModel: ValidModel,
    ValidView: ValidView,
    ButtonModel: ButtonModel,
    ButtonView: ButtonView,
    BoxModel: BoxModel,
    BoxView: BoxView,
    ProxyModel: ProxyModel,
    ProxyView: ProxyView,
    JupyterModel: JupyterModel,
    JupyterView: JupyterView,
    ** WEBPACK FOOTER
** module id = 33
** module chunks = 0
*/

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"use strict";

var widget = require("./widget");
var $ = require("./jquery");
var _ = require("underscore");

var ButtonModel = widget.DOMWidgetModel.extend({
    defaults: _.extend({}, widget.DOMWidgetModel.prototype.defaults, { description: "",

    icon: "",
    disabled: false,
    button_style: "",
    _view_name: "ButtonView",
    _model_name: "ButtonModel"
}),
});

var ButtonView = widget.DOMWidgetView.extend({
    render: function() {
        this.setElement($("<button />")
            .addClass('jupyter-widgets widget-button btn btn-default'));
        this.$el.attr("data-toggle", "tooltip");
        this.listenTo(this.model, "change:button_style", this.update_button_style, this);
        this.update_button_style();

        this.update(); // Set defaults.
    },

    update: function() {
        this.$el.prop("disabled", this.model.get("disabled"));
        this.$el.attr("title", this.model.get("tooltip"));

        var description = this.model.get("description");
        var icon = this.model.get("icon");
        if (description.trim().length === 0 && icon.trim().length === 0) {
            this.$el.html("&nbsp;"); // Preserve button height
        } else {
            this.$el.text(description);
            $('<i class="fa"></i>').prependTo(this.$el).addClass(icon);
        }

        return
    }
});

module.exports = {
    ButtonView: ButtonView,
    ButtonModel: ButtonModel
};
function() {
    var that = this;
    this.listenTo(this.model, "change:child", function(model, value) {
        that.set_child(value);
    });
    this.listenTo(this.model, "change:selector", function(model, selector) {
        var box = $(selector);
        that.set_child(model.get("child"), box);
    });
    return that.create_child_view(value);
}

return;
}

.controller("PlaceProxyView", function() {
    var that = this;
    var box = that.$el;
    that.listenTo(this.model, "change:child", function(model, value) {
        that.set_child(value);
    });
    that.listenTo(this.model, "change:selector", function(model, selector) {
        var box = $(selector);
        that.set_child(model.get("child"), box);
    });
    return that.create_child_view(model);
});
```javascript
function removeChild(view) {
    /**
     * We remove the entire container from the DOM first before removing each
     * child view separately.
     */
    this.$box.removeChildren;

    // We remove all children views before removing this view from the
    // container. This optimizes the removal process.
    this.children_views.remove(view);

    var vbox = this.$box;
    if (vbox.hasClass("vbox")) {
        vbox.removeClass("vbox").addClass("hbox");
    } else {
        vbox.removeClass("hbox").addClass("vbox");
    }
}

// Other methods...
```
```javascript
parseFloat
});

module.exports = {
    FloatSliderModel: FloatSliderModel,
    FloatTextModel: FloatTextModel,
    FloatSliderView: FloatSliderView,
    FloatTextView: FloatTextView
};

/*****************
 ** WEBPACK FOOTER
 ** ./~/jupyter-js-
widgets/src/widget_float.js
 ** module id = 36
 ** module chunks = 0
 **/"

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"use strict";

var widget = require('./widget');
var _ = require('underscore');
var $ = require("./jquery");
var d3format = require('d3-format').format;

var IntModel = widget.DOMWidgetModel.extend({
    defaults: _.extend({},
    widget.DOMWidgetModel.prototype.defaults, { _model_name: "IntModel",
    value: 0, 
    disabled: false,
    description: "\"\n     \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \\n    \"\"
    }),
});

var BoundedIntModel = IntModel.extend({
    defaults: _.extend({},
    IntModel.prototype.defaults, {
        _model_name: "BoundedIntModel",
        step: 1,
        max: 100,
        min: 0,
    }),
});

var IntSliderModel = BoundedIntModel.extend({
    defaults: _.extend({},
    BoundedIntModel.prototype.defaults, {
        _model_name: "IntSliderModel",
        orientation: "horizontal",
        range: false,
        readout: true,
        readout_format: "", 
        slider_color: null,
        continuous_update: true
    }),
    initialize: function () {
        this.on('change:readout_format',
        this.update_readout_format,
        this);
    },

    update_readout_format: function() {
        this.readout_formatter = d3format(this.get('readout_format'));
    }
});

var IntSliderView = widget.DOMWidgetView.extend({
    render : function() {
        /**
         * Called when view is rendered.
         */
        this.$el
            .addClass('jupyter-widgets widget-hbox widget-hslider');
        this.$label = $('<div />')
            .appendTo(this.$el)
            .addClass('widget-label')
            .hide();

        this.$slider = $('<div />')
            .slider({
                slide: this.handleSliderChange.bind(this),
                stop: this.handleSliderChanged.bind(this),
            })
            .addClass('slider');
        // Put the slider in a container
        this.$slider_container = $('<div />')
            .addClass('slider-container')
            .append(this.$slider);
        // Put this container in the view
        this.$el.append(this.$slider_container);

        this.$readout = $('<div/>')
            .appendTo(this.$el)
            .addClass('widget-readout')
            .attr('contentEditable', true)
            .hide();

        this.listenTo(this.model,
        'change:slider_color', function(sender, value) {
            this.$slider.find('a').css('background', value);
        },
        this);
        this.listenTo(this.model, 'change:description', function(sender, value) {
            this.updateDescription();
        }, this);

        this.$slider.find('a').css('background', this.model.get('slider_color'));

        // Set defaults.
        this.$slider_container.$(this.model.get('slider_color'));
    },

    update_attr: function(name, value) { // TODO: Deprecated in 5.0
        /**
         * Set a css attr of the widget
         */
        if (name == 'color') {
            this.$readout.css(name, value);
        } else if
        (name.substring(0, 4) == 'font') {
            this.$readout.css(name, value);
        } else if
        (name.substring(0, 6) == 'border') {
            this.$slider.find('a').css(name, value);
            this.$slider_container.css(name, value);
        } else if
        (name == 'background') {
            this.$slider_container.css(name, value);
        } else
        {this.$el.css(name, value)}
    },

    updateDescription: function(options) {
        var description = this.model.get('description');
        if (description.length == 0) {
            this.$label.hide();
        } else
        {this.$label.show();
            this.updateDescription();
        }
    },

    update : function(options) {
        if (options == undefined || options.updated_view != this) {
            // JQuery slider option keys. These keys happen to have
            // a one-to-one mapping with the corresponding keys of the model.
            var jquery_slider_keys = ['step', 'disabled', 'range']
            var that = this;
            that.$slider.slider({});
            _.each(jquery_slider_keys, function(key, i) {
                var model_value = that.model.get(key);
                if (model_value !== undefined) {
                    that.$slider.slider(key, model_value);
                }
            });
            that.$slider_container.$(this.model.get('slider_color'));
            that.$readout.$(this.model.get('readout_color'));
            that.$label.$(this.model.get('description_color'));
        }
    }
};

var IntSlider = IntSliderView.prototypes;
```

WORKAROUND FOR JQUERY SLIDER BUG.\n
// The horizontal position of the slider handle\n
//
depends on the value of the slider at the time\n
// of orientation change. Before applying the new\n
//
workaround, we set the value to the minimum to\n
// make sure that the horizontal placement of the\n
// handle in the vertical slider is always\n
// consistent.\n
var orientation =
this.model.get('orientation');\n
var min = this.model.get('min');\n
var max = this.model.get('max');\n
if (this.model.get('_range')) {\n
this.$slider.slider('option', 'values', [min, min]);\n
} else {\n
this.$slider.slider('option', 'value', min);\n
}\n
this.$slider.slider('option', 'orientation', orientation);\n
var value = this.model.get('value');\n
if (this.model.get('_range')) {\n
// values for the range
case are validated python-side in\n
// _Bounded{Int,Float}RangeWidget._validate\n
this.$slider.slider('option', 'values', value);\n
this.$readout.text(this.valueToString(value));\n
} else
{\n
if(value > max) {\n
value = max;\n
}\n
else if(value < min) {\n
value = min;\n
}\n
this.$slider.slider('option', 'value', value);\n
this.$readout.text(this.valueToString(value));\n
}\n\n
if(this.model.get('value')!=value) {\n
this.model.set('value', value, {updated_view: this});\n
this.touch();\n
}\n\n
// Use the right
CSS classes for vertical & horizontal sliders\n
if (orientation=='vertical') {\n
this.$el\n
.removeClass('widget-hslider')\n
.addClass('widget-vslider');\n
this.$el\n
.removeClass('widget-hbox')\n
.addClass('widget-vbox');\n\n
} else {\n
this.$el\n
.removeClass('widget-vslider')\n
.addClass('widget-hslider');\n
this.$el\n
.removeClass('widget-vbox')\n
.addClass('widget-hbox');\n
}\n\n
var readout =
this.model.get('readout');\n
if (readout) {\n
this.$readout.show();\n
this.displayed.then(function() {\n
if (that.readout_overflow()) {\n
that.$readout.addClass('overflow');\n
} else {\n
that.$readout.removeClass('overflow');\n
}\n
});\n
} else {\n
this.$readout.hide();\n
}\n\n
}\n
return
IntSliderView.__super__.update.apply(this);\n },\n\n /**\n * Returns true if the readout box content
overflows.\n */\n readout_overflow: function() {\n
return this.$readout[0].scrollWidth >
this.$readout[0].clientWidth;\n },\n\n /**\n * Write value to a string\n * @param {number|number[]}
value\n * @return {string}\n */\n valueToString: function(value) {\n
var format =
this.model.readout_formatter;\n
if (this.model.get('_range')) {\n
return value.map(function (v) {\n
return format(v);\n
}).join('-');\n
} else {\n
return format(value);\n
}\n },\n\n /**\n *
Parse value from a string\n * @param {string} text\n * @return {number|number[]} value\n */\n
stringToValue: function(text) {\n
if (this.model.get(\"_range\")) {\n
// range case\n
// ranges can be
expressed either \"val-val\" or \"val:val\" (+spaces)\n
var match = this._range_regex.exec(text);\n
if
(match) {\n
return [this._parse_value(match[1]), this._parse_value(match[2])];\n
} else {\n
return null;\n
}\n\n
} else {\n
return this._parse_value(text);\n
}\n },\n\n events: {\n
//
Dictionary of events and their handlers.\n
\"slide\": \"handleSliderChange\",\n
\"slidestop\":
\"handleSliderChanged\",\n
\"blur [contentEditable=true]\": \"handleTextChange\",\n
\"keydown
[contentEditable=true]\": \"handleKeyDown\"\n },\n\n handleKeyDown: function(e) {\n
if (e.keyCode ==
13) { /* keyboard keycodes `enter` */\n
e.preventDefault();\n
this.handleTextChange();\n
}\n
},\n\n handleTextChange: function() {\n
/**\n
* this handles the entry of text into the contentEditable
label\n
* first, the value is checked if it contains a parseable number\n
*
(or pair of numbers, for the
_range case)\n
* then it is clamped within the min-max range of the slider\n
* finally, the model is updated
if the value is to be changed\n
*\n
* if any of these conditions are not met, the text is reset\n
*\n
* the step size is not enforced\n
*/\n
var value = this.stringToValue(this.$readout.text());\n
var vmin =
this.model.get('min');\n
var vmax = this.model.get('max');\n
if (this.model.get(\"_range\")) {\n
//
reject input where NaN or lower > upper\n
if (value === null ||\n
isNaN(value[0]) ||\n
isNaN(value[1]) ||\n
(value[0] > value[1])) {\n
this.$readout.text(this.valueToString(this.model.get('value')));\n
} else {\n
// clamp to range\n
value = [Math.max(Math.min(value[0], vmax), vmin),\n
Math.max(Math.min(value[1], vmax),

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if ((value[0] != this.model.get('value')[0]) ||
    (value[1] != this.model.get('value')[1])) {
    this.$readout.text(this.valueToString(this.model.get('value')));
    this.model.set('value', this.valueToString(value), {updated_view: this});
    this.touch();
} else {
    this.$readout.text(this.valueToString(this.model.get('value')));
}

if (isNaN(value)) {
    this.$readout.text(this.valueToString(this.model.get('value')));
} else {
    value = Math.max(Math.min(value, vmax), vmin);

    if (value != this.model.get('value')) {
        this.$readout.text(this.valueToString(value));
        this.model.set('value', value, {updated_view: this});
        this.touch();
    } else {
        this.$readout.text(this.valueToString(this.model.get('value')));
    }
}

if (this.model.get("_range")) {
    actual_value = ui.values.map(this._validate_slide_value);
} else {
    actual_value = this._validate_slide_value(ui.value);
}

this.$readout.text(this.valueToString(actual_value));

var IntTextView = widget.DOMWidgetView.extend({
    render : function() {
        **/Called when view is rendered./**
        this.$el
            .addClass('jupyter-widgets widget-hbox
            widget-text');
        this.$label = $('<div />')
            .appendTo(this.$el)
            .addClass('widget-label')
            .hide();
        this.$textbox = $('<input type="text" />')
            .addClass('form-control')
            .appendTo(this.$el);

        this.listenTo(this.model, 'change:description', function(sender, value) {
            this.updateDescription();
        }, this);

        this.update(); // Set defaults.
        this.updateDescription();
    },

    updateDescription: function() {
        var description = this.model.get('description');
        if (description.length === 0) {
            this.$label.hide();
        } else {
            this.typeset(this.$label,
            description);
            this.$label.show();
        }
    },

    update : function(options) {
        **/Called when the model is changed.  The model may have been changed by another view or by a state update from the back-end.**
        if (options === undefined ||
            options.updated_view != this) {
            var value = this.model.get('value');
            if (this._parse_value(this.$textbox.val()) != value) {
                this.$textbox.val(value);
            }

            if (this.model.get('disabled')) {
                this.$textbox.attr('disabled','disabled');
            } else {
                this.$textbox.removeAttr('disabled');
            }
        }
        return IntTextView.__super__.update.apply(this);
    },

    _validate_slide_value: function(x) {
        /**
         * Validate the value of the slider before sending it to the back-end and applying it to the other views on the page.
         */
        return Math.floor(x);
    }
});

var IntModel = widget.IntModel.extend({
    defaults: _.extend({}, widget.IntModel.prototype.defaults, {
        _model_name: "IntModel",
        _view_name: "IntView"
    }),

    handleSliderChange: function(e, ui) {
        var actual_value = ui.values.map(this._validate_slide_value);
        this.$readout.text(this.valueToString(actual_value));
    },

    handleSliderChanged: function(e, ui) {
        var actual_value = ui.values.map(this._validate_slide_value);
        this.$readout.text(this.valueToString(actual_value));
    },

    _validate_slide_value: function(x) {
        /**
         * Validate the value of the slider before sending it to the back-end and applying it to the other views on the page.
         */
        return Math.floor(x);
    }
});
var ProgressModel = BoundedIntModel.extend({
    defaults: _.extend({}, BoundedIntModel.prototype.defaults, {
        _model_name: "ProgressModel",
        _view_name: "ProgressView",
        orientation: "horizontal",
        bar_style: "\"\""
    }),
});

var ProgressView = widget.DOMWidgetView.extend({
    render : function() {
        /**
         * Render the contents of this view
         *
         * called when view is rendered.
         */
        this.$el.removeClass('widget-hprogress');
        this.$el.addClass('widget-vprogress');
        this.$bar.css({
            'width': percent + '%',
            'height': '100%',
        });
    },

    update_bar_style: function() {
        var class_map = {
            'width': '100%',
            'height': percent + '%',
        });
        return
    }
});

var PlayModel = BoundedIntModel.extend({
    defaults: _.extend({}, BoundedIntModel.prototype.defaults, {
        _model_name: "PlayModel",
        _view_name: "PlayView",
        _playing: false,
        interval: 100
    }),

    initialize: function() {
        /**
         * Initialize the contents of this view
         *
         * Called when view is rendered.
         */
        this.$el.addClass("jupyter-widgets widget-hprogress");
        this.$label = $('<div />')
            .appendTo(this.$el)
            .addClass('widget-label')
            .hide();

        this.$progress = $('<div />')
            .addClass('progress')
            .css('position', 'relative')
            .appendTo(this.$el);

        this.$bar = $('<div />')
            .addClass('progress-bar')
            .css({
                'width': percent + '%',
                'height': '100%',
            });

        this.$progress.append(this.$bar);
        this.$progress.append(this.$label);
    },

    handleChanged: function(e) { // TODO: Deprecated in 5.0
        if (e.target.value.trim() === "" || e.target.value !== this.model.get('value')) {
            // Calling model.set will trigger all of the other views of the model to update.
            this.model.set('value', this.get('value'));
            this.model.save_changes();
        }
    },

    on: function(eventName, handler) {
        if (eventName === 'change:_playing') {
            if (this.get('_playing')) {
                this.loop();
            } else {
                this.set('_playing', false);
            }
        }
    },

    loop: function() {
        if (this.get('_playing')) {
            var next_value = this.get('value') + this.get('step');
            if (next_value < this.get('max')) {
                this.set('value', next_value);
                window.setTimeout(this.loop.bind(this), this.get('interval'));
            } else {
                this.set('_playing', false);
                this.save_changes();
            }
        }
    },

    _parse_value: parseInt
});

var ProgressModel = BoundedIntModel.extend({
    defaults: _.extend({}, BoundedIntModel.prototype.defaults, {
        _model_name: "ProgressModel",
        _view_name: "ProgressView",
        orientation: "horizontal",
        bar_style: "\"\""
    }),
});

var ProgressView = widget.DOMWidgetView.extend({
    render : function() {
        /**
         * Render the contents of this view
         *
         * called when view is rendered.
         */
        this.$el.removeClass('widget-hprogress');
        this.$el.addClass('widget-vprogress');
        this.$bar.css({
            'width': percent + '%',
            'height': '100%',
        });
    },

    update_bar_style: function() {
        var class_map = {
            'width': '100%',
            'height': percent + '%',
        });
        return
    }
});

var PlayModel = BoundedIntModel.extend({
    defaults: _.extend({}, BoundedIntModel.prototype.defaults, {
        _model_name: "PlayModel",
        _view_name: "PlayView",
        _playing: false,
        interval: 100
    }),

    initialize: function() {
        /**
         * Initialize the contents of this view
         *
         * Called when view is rendered.
         */
        this.$el.addClass("jupyter-widgets widget-hprogress");
        this.$label = $('<div />')
            .appendTo(this.$el)
            .addClass('widget-label')
            .hide();

        this.$progress = $('<div />')
            .addClass('progress')
            .css('position', 'relative')
            .appendTo(this.$el);

        this.$bar = $('<div />')
            .addClass('progress-bar')
            .css({
                'width': percent + '%',
                'height': '100%',
            });

        this.$progress.append(this.$bar);
        this.$progress.append(this.$label);
    },

    handleChanged: function(e) { // TODO: Deprecated in 5.0
        if (e.target.value.trim() === "" || e.target.value !== this.model.get('value')) {
            // Calling model.set will trigger all of the other views of the model to update.
            this.model.set('value', this.get('value'));
            this.model.save_changes();
        }
    },

    on: function(eventName, handler) {
        if (eventName === 'change:_playing') {
            if (this.get('_playing')) {
                this.loop();
            } else {
                this.set('_playing', false);
            }
        }
    },

    loop: function() {
        if (this.get('_playing')) {
            var next_value = this.get('value') + this.get('step');
            if (next_value < this.get('max')) {
                this.set('value', next_value);
                window.setTimeout(this.loop.bind(this), this.get('interval'));
            } else {
                this.set('_playing', false);
                this.save_changes();
            }
        }
    },

    _parse_value: parseInt
});

var ProgressModel = BoundedIntModel.extend({
    defaults: _.extend({}, BoundedIntModel.prototype.defaults, {
        _model_name: "ProgressModel",
        _view_name: "ProgressView",
        orientation: "horizontal",
        bar_style: "\"\""
    }),
});

var ProgressView = widget.DOMWidgetView.extend({
    render : function() {
        /**
         * Render the contents of this view
         *
         * called when view is rendered.
         */
        this.$el.removeClass('widget-hprogress');
        this.$el.addClass('widget-vprogress');
        this.$bar.css({
            'width': percent + '%',
            'height': '100%',
        });
    },

    update_bar_style: function() {
        var class_map = {
            'width': '100%',
            'height': percent + '%',
        });
        return
    }
});

var PlayModel = BoundedIntModel.extend({
    defaults: _.extend({}, BoundedIntModel.prototype.defaults, {
        _model_name: "PlayModel",
        _view_name: "PlayView",
        _playing: false,
        interval: 100
    }),

    initialize: function() {
        /**
         * Initialize the contents of this view
         *
         * Called when view is rendered.
         */
        this.$eladdClass("jupyter-widgets widget-hprogress");
        this.$label = $('<div />')
            .appendTo(this.$el)
            .addClass('widget-label')
            .hide();

        this.$progress = $('<div />')
            .addClass('progress')
            .css('position', 'relative')
            .appendTo(this.$el);

        this.$bar = $('<div />')
            .addClass('progress-bar')
            .css({
                'width': percent + '%',
                'height': '100%',
            });

        this.$progress.append(this.$bar);
        this.$progress.append(this.$label);
    },

    handleChanged: function(e) { // TODO: Deprecated in 5.0
        if (e.target.value.trim() === "" || e.target.value !== this.model.get('value')) {
            // Calling model.set will trigger all of the other views of the model to update.
            this.model.set('value', this.get('value'));
            this.model.save_changes();
        }
    },

    on: function(eventName, handler) {
        if (eventName === 'change:_playing') {
            if (this.get('_playing')) {
                this.loop();
            } else {
                this.set('_playing', false);
            }
        }
    },

    loop: function() {
        if (this.get('_playing')) {
            var next_value = this.get('value') + this.get('step');
            if (next_value < this.get('max')) {
                this.set('value', next_value);
                window.setTimeout(this.loop.bind(this), this.get('interval'));
            } else {
                this.set('_playing', false);
                this.save_changes();
            }
        }
    },

    _parse_value: parseInt
});
coefficient = d[0],
exponent = d[1];
    return exponent < 0 ? "0." + new Array(-exponent).join("0") + coefficient + "." + x.slice(i + 1) : i > n ? coefficient + new Array(i - n + 1).join("0") : i > 0 ? coefficient.slice(0, i) + "." + x.slice(i + 1) : x.slice(i);

grouping[j = (j + 1) % grouping.length];
  }

  function formatGroup(grouping, thousands) {
    return function(value, width, length) {
      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

  function formatDefault(x, p) {
    var x = x.toPrecision(p);
    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
  }

  function formatPrefixAuto(x, p) {
    if (!d) return x + "";
    var coefficient = d[0],
exponent = d[1],
    n = coefficient.length;
    return i === n ? "0." : x.slice(i + 1) + x.slice(i);
    };

  function formatDecimal(x, p) {
    if ((i = (x = p ? x.toExponential(p - 1) : x.toExponential()).indexOf("e")) < 0)
      return x + "";
    var coefficient = x.slice(0, i);

    // The string returned by toExponential either has the form \d\.\d+e\[-+\]\d+ or the form \de\[-+\]\d+.
    return ["d\d\d\d\d", 0];
  }

  function formatRounded(x, p) {
    var d = formatDecimal(x, p);
    if (!d) return x + "";
    var i = exponent - (prefixExponent = exponent(x) ? x[1] : NaN);

    switch (x[i]) {
      case ".": i0 = i1 = i; break;
      case "0": if (i0 === 0) i0 = i; i1 = i; break;
      default: if (i0 > 0) i0 = 0; break;
    }

    while (i > 0 && g > 0) {
      if (length += g + 1 > width) break;
      t.push(value.substring(i -= g, i + g));
      g = Math.max(1, width - length);
    }

    return t.reverse().join(thousands);
  }

  function formatPrefix(x, p) {
    return xONGL << (exponent(x) ? x[1] : NaN);
  }

  function formatDefault(x, p) {
    x = x.toPrecision(p);
    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
  }

  function formatGroup(grouping, thousands) {
    return function(value, width, length) {
      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

  function formatDefault(x, p) {
    var x = x.toPrecision(p);
    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
  }

  function formatGroup(grouping, thousands) {
    return function(value, width, length) {
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          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
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    return function(value, width, length) {
      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

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    var x = x.toPrecision(p);
    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
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  function formatGroup(grouping, thousands) {
    return function(value, width, length) {
      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

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      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

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    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
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    return function(value, width, length) {
      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

  function formatDefault(x, p) {
    var x = x.toPrecision(p);
    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
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      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

  function formatDefault(x, p) {
    var x = x.toPrecision(p);
    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
  }

  function formatGroup(grouping, thousands) {
    return function(value, width, length) {
      var i = value.length,
          t = [],
          j = 0,
          g = grouping[0],
          n = Math.floor(length / g);
      if (length >= (g + 1) > width) break;\n      g = grouping[j = (j + 1) % grouping.length];
      return t.reverse().join(thousands);
    };

  function formatDefault(x, p) {
    var x = x.toPrecision(p);
    return x >= (p < 0) ? x : x < (p < 0) ? x : x;
  }
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```javascript
function format(value) {
  var
    fill = "0", align = "=";

  this.fill = fill;
  this.align = align;
  this.sign = sign;
  this.symbol = symbol;
  this.zero = zero;
  this.width = width;
  this.comma = comma;
  this.precision = precision;
  this.type = type;
}

function locale(locale) {
  var group = locale.grouping && locale.thousands ? "0", align = "=";

  this.fill = fill;
  this.align = align;
  this.sign = sign;
  this.symbol = symbol;
  this.zero = zero;
  this.width = width;
  this.comma = comma;
  this.precision = precision;
  this.type = type;
}

FormatSpecifier.prototype.toString = function() {
  return this.fill
    + this.align
    +
```
var format = defaultLocale.format;
var formatPrefix = defaultLocale.formatPrefix;
var version = '0.5.1';
exports.version = version;
exports.format = format;
exports.formatPrefix = formatPrefix;
exports.formatLocale = locale;
exports.formatCalEs = caES;
exports.formatCsCz = csCZ;
exports.formatDeCh = deCH;
exports.formatDeDe = deDE;
exports.formatEnCa = enCA;
exports.formatEnGb = enGB;
exports.formatEnUs = defaultLocale;
exports.formatEsEs = esES;
exports.formatFiFi = fiFI;
exports.formatFrCa = frCA;
exports.formatFrFr = frFR;
exports.formatHl = hl;
exports.formatHuHu = huHU;
exports.formatIt = itIT;
exports.formatJaJp = jaJP;
exports.formatKoKr = koKR;
exports.formatMkMk = mkMK;
exports.formatNlNl = nlNL;
exports.formatPlPl = plPL;
exports.formatPtBr = ptBR;
exports.formatRuRu = ruRU;
exports.formatSvSe = svSE;
exports.formatZhCn = zhCN;
exports.formatSpecifier = formatSpecifier;
exports.precisionFixed = precisionFixed;
exports.precisionPrefix = precisionPrefix;
exports.precisionRound = precisionRound;

var ImageModel = widget.DOMWidgetModel.extend({
    defaults: _.extend({}, widget.DOMWidgetModel.prototype.defaults, {
        _model_name: 'ImageModel',
        _view_name: 'ImageView',
        format: 'png',
        width: null,
        height: null,
        _b64value: null
    }),
});

var ImageView = widget.DOMWidgetView.extend({
    render: function() {
        /**
         * Called when view is rendered.
         */
        this.setElement($("<img />")

            .addClass("jupyter-widgets widget-image"));
        this.update(); // Set defaults.
    },

    update: function() {
        /**
         * Update the contents of this view
         *
         * Called when the model is changed.  The model
         * may have been changed by another view or by a
         * state update from the back-end.
         */
        var image_src = 'data:image/' + this.model.get('format') + ';base64,' + this.model.get('_b64value');

        this.$el.attr('src', image_src);

        var width = this.model.get('width');
        if (width !== undefined && width.length > 0) {
            this.$el.attr('width', width);
        } else {
            this.$el.removeAttr('width');
        }

        var height = this.model.get('height');
        if (height !== undefined && height.length > 0) {
            this.$el.attr('height', height);
        } else {
            this.$el.removeAttr('height');
        }
        return ImageView.__super__.update.apply(this);
    },
});

module.exports = {
    ImageView: ImageView,
    ImageModel: ImageModel,
};
0) { this.$label.hide(); this.$color_container.css("justify-content", "auto"); } else { this.$label.show(); } }

        if (concise) { this.$color_container.css("justify-content", "flex-end"); } else { this.$label.show(); } }

    },
    _update_concise: function() {
        var concise = this.model.get("concise");
        if (concise) {
            this.$el.addClass("concise");
            this.$colorpicker.removeClass("input-group-addon");
            this.$textbox.hide();
        } else {
            this.$el.removeClass("concise");
            this.$colorpicker.addClass("input-group-addon");
            this.$textbox.show();
        }
    },
    _picker_change: function() {
        this.model.set("value", this.$colorpicker.val());
        this.touch();
    },
    _text_change: function() {
        this.model.set("value", this._validate_color(this.$textbox.val(),
                                                     this.model.get("value")));
        this.touch();
    },
    _validate_color: function(color, fallback) {
        return color.match(/#\[a-fA-F0-9\]{3}(?:[a-fA-F0-9\]{3})?$/) ||
          named_colors[color.toLowerCase()] ? color: fallback;
    },
});

var named_colors = {
    aliceblue: "#f0f8ff",
    antiquewhite: "#faebd7",
    aqua: "#00ffff",
    aquamarine: "#7fffd4",
    azure: "#f0fff",
    beige: "#f5f5dc",
    bisque: "#ffe4c4",
    black: "#000000",
    blanchedalmond: "#ffebdd",
    blue: "#0000ff",
    blueviolet: "#8a2be2",
    brown: "#a52a2a",
    burlywood: "#deb887",
    cadetblue: "#5f9ea0",
    chartreuse: "#7fffd4",
    chocolate: "#d2691e",
    coral: "#ff7f50",
    cornflowerblue: "#6495ed",
    cornsilk: "#fff8dc",
    crimson: "#dc143c",
    cyan: "#00ffff",
    darkblue: "#00008b",
    darkcyan: "#008b8b",
    darkgoldenrod: "#b8860b",
    darkgray: "#a9a9a9",
    darkgrey: "#a9a9a9",
    darkgreen: "#006400",
    darkkhaki: "#bdb76b",
    darkmagenta: "#8b008b",
    darkolivegreen: "#556b2f",
    darkorange: "#ff8c00",
    darkorchid: "#9932cc",
    darkred: "#8b0000",
    darksalmon: "#e9967a",
    darkseagreen: "#8fbc8f",
    darkslateblue: "#483d8b",
    darkslategray: "#2f4f4f",
    darkslategrey: "#2f4f4f",
    darkturquoise: "#00f0f0",
    deepcyan: "#00bfff",
    deepskyblue: "#a0d269",
    denim: "#a0d269",
    dimgrey: "#1f1f1f",
    dimgray: "#1f1f1f",
    dodgerblue: "#1e90ff",
    firebrick: "#b22222",
    floralwhite: "#fffad2",
    forestgreen: "#228b22",
    fuchsia: "#ff00ff",
    gainsboro: "#dcdcdc",
    ghostwhite: "#f8f8ff",
    gold: "#ffebbd",
    goldenrod: "#d3b73c",
    gray: "#808080",
    grey: "#808080",
    green: "#008000",
    greenyellow: "#adff2f",
    honeydew: "#ffffff",
    hotpink: "#ff69b4",
    indianred: "#cd5c5c",
    indigo: "#4b0082",
    ivory: "#fffff0",
    khaki: "#f0e68c",
    lavender: "#e6e6fa",
    lavenderblush: "#fff0f5",
    lawngreen: "#7cfc00",
    lemonchiffon: "#fffacd",
    lightblue: "#add8e6",
    lightcoral: "#fb8072",
    lightcyan: "#e0ffff",
    lightgoldenrod: "#f1eeee",
    lightgoldenrodyellow: "#faf0ee",
    lightgreen: "#90ee90",
    lightgray: "#d3d3d3",
    lightgrey: "#d3d3d3",
    lightpink: "#ff69b4",
    lightsalmon: "#f08080",
    lightsteelblue: "#b0e0e6",
    lightsteelgray: "#b0e0e6",
    lightsteelgrey: "#b0e0e6",
    lightyellow: "#ffffe0",
    lime: "#00ff00",
    limegreen: "#32cd32",
    linen: "#faf0e6",
    lavender: "#e6e6fa",
    lavenderblush: "#fff0f5",
    lawngreen: "#7cfc00",
    lightyellow: "#ffffe0",
    lightblue: "#add8e6",
    lightcyan: "#e0ffff",
    lightgoldenrod: "#f1eeee",
    lightgreen: "#90ee90",
    lightgray: "#d3d3d3",
    lightgrey: "#d3d3d3",
    lightpink: "#ff69b4",
    lightsalmon: "#f08080",
    lightsteelblue: "#b0e0e6",
    lightsteelgray: "#b0e0e6",
    lightsteelgrey: "#b0e0e6",
    lightyellow: "#ffffe0",
    lime: "#00ff00",
    limegreen: "#32cd32",
    linen: "#faf0e6",
    lavender: "#e6e6fa",
    lavenderblush: "#fff0f5",
    lawngreen: "#7cfc00",
    lightyellow: "#ffffe0",
    lightblue: "#add8e6",
    lightcyan: "#e0ffff",
    lightgoldenrod: "#f1eeee",
    lightgreen: "#90ee90",
    lightgray: "#d3d3d3",
    lightgrey: "#d3d3d3",
**WEBPACK FOOTER

*/~/jupyter-js-widgets/src/widget_color.js

** module id = 40

** module chunks = 0

*/

/* Copyright (c) Jupyter Development Team.
// Distributed under the terms of the Modified BSD License.
*/

"use strict";

var widget = require("./widget");
var utils = require("./utils");
var $ = require("./jquery");
var _ = require("underscore");

var SelectionModel = widget.DOMWidgetModel.extend({
    defaults: _.extend({}, widget.DOMWidgetModel.prototype.defaults, {
        _model_name: "SelectionModel",
        value: "",
        _options_labels: [],
        disabled: false,
        description: ""
    }),
});

var DropdownModel = SelectionModel.extend({
    defaults: _.extend({}, SelectionModel.prototype.defaults, {
        _model_name: "DropdownModel",
        _view_name: "DropdownView",
        button_style: "",
    }),
});

var DropdownView = widget.DOMWidgetView.extend({
    render: function() {
        this.$el
            .addClass('jupyter-widgets widget-hbox widget-dropdown');
        this.$label = $('<div />')
            .appendTo(this.$el)
            .addClass('widget-label')
            .hide();
        this.$buttongroup = $('<div />')
            .addClass('widget_item')
            .addClass('btn-group')
            .appendTo(this.$el);
        this.$droplabel = $('<button />')
            .addClass('btn btn-default')
            .addClass('widget-combo-btn')
            .html("")
            .appendTo(this.$buttongroup);
        this.$dropbutton = $('<button />')
            .addClass('btn btn-default')
            .addClass('dropdown-toggle')
            .attr('data-toggle', 'dropdown')
            .click(this._showDropdown.bind(this))
            .append($('<span />').addClass("caret"))
            .appendTo(this.$buttongroup);
        this.$droplist = $('<ul />')
            .addClass('dropdown-menu')
            .appendTo(this.$buttongroup);

        this.listenTo(this.model, "change:button_style", this.update_button_style,
            this);
        this.update_button_style();

        // Set defaults.
        this.update();
    },

    /**
     * Show the dropdown list.
     *
     * If the dropdown list doesn't fit below the dropdown label, this will * cause
     * the dropdown to be dropped "up".
     * @param  {Event} e
     */
    _showDropdown: function(e) {
        // Don't allow bootstrap to show the dropdown!
        e.stopImmediatePropagation();
        e.preventDefault();

        // Get the bottom of the dropdown label, and the bottom of the nb body.
        // The difference is the maximum height of the dropdown menu.
        var droplabelRect = this.$droplabel[0].getBoundingClientRect();
        var parent = this.$droplabel[0].parentNode;
        while (parent.parentNode) parent = parent.parentNode;
        var bodyRect = parent.body.getBoundingClientRect();

        var maxHeight = bodyRect.bottom - droplabelRect.bottom;

        // If the maximum height of the dropdown's space is less than the
        // height of the dropdown itself, make it drop up!
        if (maxHeight < 200) {
            this.$buttongroup[0].classList.add('dropup');
        } else {
            this.$buttongroup[0].classList.remove('dropup');
        }

        // Show the dropdown(or up)
        this.$dropbutton.dropdown('toggle');
    },

    update: function(options) {
        /**
         * Update the contents of this view
         *
         * Called when the model is changed. The model may have been * changed by
         * another view or by a state update from the back-end
         */

        if (options === undefined || options.update != this) {
            var selected_item_text = this.model.get('value');
            if (selected_item_text.trim().length === 0) {
                this.$droplabel.html(" ");
            } else {
                this.$droplabel.text(selected_item_text);
            }

            var items = this.model.get('_options_labels');
            var $replace_droplist = $('<ul />')
                .addClass('dropdown-menu');
            var that = this;
            _.each(items, function(item, i) {
                var item_button = $('<a href="#"/>')
                    .text(item)
                    .on('click', $.proxy(that.handle_click, that));
                $replace_droplist.append($('<li />').append(item_button));
            });

            this.$droplist.replaceWith($replace_droplist);
            this.$droplist.remove();

            if (this.model.get('disabled')) {
                this.$buttongroup.attr('disabled', 'disabled');
                this.$droplabel.attr('disabled', 'disabled');
                this.$dropbutton.attr('disabled', 'disabled');
            } else {
                this.$buttongroup.removeAttr('disabled');
                this.$droplabel.removeAttr('disabled');
                this.$dropbutton.removeAttr('disabled');
            }

            var description = this.model.get('description');
            if (description.length === 0) {
                this.$label.hide();
            }
    }...
ToggleButtonsView._super__initialize.apply(this, arguments);\n},\n
        render: function() {\n          /*\n           Called when view is rendered.\n           */\n          this.$el\n            .addClass('jupyter-widgets widget-hbox widget-toggle-buttons');\n          this.$label = $('\n              \n                .appendTo(this.$el)\n                .addClass('widget-label')\n                .hide();\n          this.$buttongroup = $('\n              \n                .appendTo(this.$el)\n                .addClass('btn-group')\n                .appendTo(this.$el);\n          this.listenTo(this.model, 'change:button_style', this.update_button_style, this);\n          this.update_button_style();\n          this.$label\n            .attr('data-toggle', 'tooltip')\n            .attr('value', item)\n            .on('click', $.proxy(this.handle_click, that));\n          that.$buttongroup\n            .prependTo(Sitem_element);\n          that.$buttongroup.html();\n          Sitem_element = that.$buttongroup.find(item_query);\n          var $icon_element = Sitem_element.find('.fa');\n          var $item_element = that.$buttongroup.find('button')\n            .attr('type', 'button')\n            .addClass('btn btn-default')\n            .html(item_html)\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$buttongroup = that.$buttongroup\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$label = that.$label\n            .addClass('widget-label')\n            .html();\n          that.$el\n            .addClass('jupyter-widgets widget-hbox widget-toggle-buttons');\n          this.$label = $('\n              \n                .appendTo(this.$el)\n                .addClass('widget-label')\n                .hide();\n          this.$buttongroup = $('\n              \n                .appendTo(this.$el)\n                .addClass('btn-group')\n                .appendTo(this.$el);\n          this.listenTo(this.model, 'change:button_style', this.update_button_style, this);\n          this.update_button_style();\n          this.$label\n            .attr('data-toggle', 'tooltip')\n            .attr('value', item)\n            .on('click', $.proxy(this.handle_click, that));\n          that.$buttongroup\n            .prependTo(Sitem_element);\n          that.$buttongroup.html();\n          Sitem_element = that.$buttongroup.find(item_query);\n          var $icon_element = Sitem_element.find('.fa');\n          var $item_element = that.$buttongroup.find('button')\n            .attr('type', 'button')\n            .addClass('btn btn-default')\n            .html(item_html)\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$buttongroup = that.$buttongroup\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$label = that.$label\n            .addClass('widget-label')\n            .html();\n          that.$el\n            .addClass('jupyter-widgets widget-hbox widget-toggle-buttons');\n          this.$label = $('\n              \n                .appendTo(this.$el)\n                .addClass('widget-label')\n                .hide();\n          this.$buttongroup = $('\n              \n                .appendTo(this.$el)\n                .addClass('btn-group')\n                .appendTo(this.$el);\n          this.listenTo(this.model, 'change:button_style', this.update_button_style, this);\n          this.update_button_style();\n          this.$label\n            .attr('data-toggle', 'tooltip')\n            .attr('value', item)\n            .on('click', $.proxy(this.handle_click, that));\n          that.$buttongroup\n            .prependTo(Sitem_element);\n          that.$buttongroup.html();\n          Sitem_element = that.$buttongroup.find(item_query);\n          var $icon_element = Sitem_element.find('.fa');\n          var $item_element = that.$buttongroup.find('button')\n            .attr('type', 'button')\n            .addClass('btn btn-default')\n            .html(item_html)\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$buttongroup = that.$buttongroup\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$label = that.$label\n            .addClass('widget-label')\n            .html();\n          that.$el\n            .addClass('jupyter-widgets widget-hbox widget-toggle-buttons');\n          this.$label = $('\n              \n                .appendTo(this.$el)\n                .addClass('widget-label')\n                .hide();\n          this.$buttongroup = $('\n              \n                .appendTo(this.$el)\n                .addClass('btn-group')\n                .appendTo(this.$el);\n          this.listenTo(this.model, 'change:button_style', this.update_button_style, this);\n          this.update_button_style();\n          this.$label\n            .attr('data-toggle', 'tooltip')\n            .attr('value', item)\n            .on('click', $.proxy(this.handle_click, that));\n          that.$buttongroup\n            .prependTo(Sitem_element);\n          that.$buttongroup.html();\n          Sitem_element = that.$buttongroup.find(item_query);\n          var $icon_element = Sitem_element.find('.fa');\n          var $item_element = that.$buttongroup.find('button')\n            .attr('type', 'button')\n            .addClass('btn btn-default')\n            .html(item_html)\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$buttongroup = that.$buttongroup\n            .addClass('btn-group')\n            .appendTo(this.$el);\n          that.$label = that.$label\n            .addClass('widget-label')\n            .html();\n          that.$el\n            .addClass('jupyter-widgets widget-hbox widget-toggle-buttons');\n          this.$label = $('\n              \n                .appendTo(this.$el)\n                .addClass('widget-label')\n                .hide();\n          this.$buttongroup = $('\n              \n                .appendTo(this.$el)\n                .addClass('btn-group')\n                .appendTo(this.$el);\n          this.listenTo(this.model, 'change:button_style', this.update_button_style, this);\n          this.update_button_style();\n          this.$label\n            .attr('data-toggle', 'tooltip')\n            .attr('value', item)\n            .on('click', $.proxy(this.handle_click, that));\n          that.$buttongroup\n            .prependTo(Sitem_element);\n          that.$buttongroup.html();\n          Sitem_element = that.$buttongrid
*/\n
this.$el\n
.addClass('jupyter-widgets widget-hbox widget-select');\n
this.$label = $('<div />')\n
.appendTo(this.$el)\n
.addClass('widget-label')\n
.hide();\n
this.$listbox = $('<select />')\n
.addClass('widget-listbox form-control')\n
.attr('size', 6)\n
.appendTo(this.$el)\n
.on('change',
$.proxy(this.handle_change, this));\n
this.update();\n },\n\n update: function(options) {\n
/**\n
*
Update the contents of this view\n
*\n
* Called when the model is changed. The model may have been\n
* changed by another view or by a state update from the back-end.\n
*/\n
if (options === undefined ||
options.updated_view != this) {\n
// Add missing items to the DOM.\n
var items =
this.model.get('_options_labels');\n
var that = this;\n
_.each(items, function(item, index) {\n
var item_query = 'option[data-value=\"' + encodeURIComponent(item) + '\"]';\n
if
(that.$listbox.find(item_query).length === 0) {\n
$('<option />')\n
.text(item.replace ?
item.replace(/ /g, '\\xa0') : item) // replace string spaces with &nbsp; for correct rendering\n
.attr('datavalue', encodeURIComponent(item))\n
.val(item)\n
.on(\"click\",
$.proxy(that.handle_click, that))\n
.appendTo(that.$listbox);\n
}\n
});\n\n
//
Select the correct element\n
this.$listbox.val(this.model.get('value'));\n\n
// Disable listbox if needed\n
var disabled = this.model.get('disabled');\n
this.$listbox.prop('disabled', disabled);\n\n
// Remove
items that no longer exist.\n
this.$listbox.find('option').each(function(i, obj) {\n
var value =
$(obj).val();\n
var found = false;\n
_.each(items, function(item, index) {\n
if (item ==
value) {\n
found = true;\n
return false;\n
}\n
});\n\n
if
(!found) {\n
$(obj).remove();\n
}\n
});\n\n
var description =
this.model.get('description');\n
if (description.length === 0) {\n
this.$label.hide();\n
} else {\n
this.typeset(this.$label, description);\n
this.$label.show();\n
}\n
}\n
return
SelectView.__super__.update.apply(this);\n },\n\n update_attr: function(name, value) { // TODO: Deprecated in
5.0\n
/**\n
* Set a css attr of the widget view.\n
*/\n
if (name == 'padding' || name == 'margin')
{\n
this.$el.css(name, value);\n
} else {\n
this.$listbox.css(name, value);\n
}\n },\n\n
handle_click: function (e) {\n
/**\n
* Handle when a new value is clicked.\n
*/\n
this.$listbox.val($(e.target).val()).change();\n },\n\n handle_change: function (e) {\n
/**\n
* Handle
when a new value is selected.\n
*\n
* Calling model.set will trigger all of the other views of the\n
*
model to update.\n
*/\n
this.model.set('value', this.$listbox.val(), {updated_view: this});\n
this.touch();\n },\n});\n\nvar SelectionSliderModel = SelectionModel.extend({\n defaults: _.extend({},
SelectionModel.prototype.defaults, {\n
_model_name: \"SelectionSliderModel\",\n
_view_name:
\"SelectionSliderView\",\n
orientation: \"horizontal\",\n
readout: true,\n
continuous_update: true\n
}),\n});\n\nvar SelectionSliderView = widget.DOMWidgetView.extend({\n render : function() {\n
/**\n
* Called when view is rendered.\n
*/\n
this.$el\n
.addClass('jupyter-widgets widget-hbox widgethslider');\n
this.$label = $('<div />')\n
.appendTo(this.$el)\n
.addClass('widget-label')\n
.hide();\n\n
this.$slider = $('<div />')\n
.slider({\n
slide: this.handleSliderChange.bind(this),\n
stop: this.handleSliderChanged.bind(this)\n
})\n
.addClass('slider');\n\n
// Put the slider in a
container\n
this.$slider_container = $('<div />')\n
.addClass('slider-container')\n
.append(this.$slider);\n
this.$el.append(this.$slider_container);\n\n
this.$readout = $('<div/>')\n
.appendTo(this.$el)\n
.addClass('widget-readout')\n
.hide();\n\n
this.listenTo(this.model,
'change:slider_color', function(sender, value) {\n
this.$slider.find('a').css('background', value);\n
},
this);\n
this.listenTo(this.model, 'change:description', function(sender, value) {\n
this.updateDescription();\n
}, this);\n\n
this.$slider.find('a').css('background',
this.model.get('slider_color'));\n\n
// Set defaults.\n
this.update();\n
this.updateDescription();\n },\n\n
update_attr: function(name, value) { // TODO: Deprecated in 5.0\n
/**\n
* Set a css attr of the widget
view.\n
*/\n
if (name == 'color') {\n
this.$readout.css(name, value);\n
} else if
(name.substring(0, 4) == 'font') {\n
this.$readout.css(name, value);\n
} else if (name.substring(0, 6) ==
'border') {\n
this.$slider.find('a').css(name, value);\n
this.$slider_container.css(name, value);\n
}
else if (name == 'background') {\n
this.$slider_container.css(name, value);\n
} else {\n

Open Source Used In Secure Workload 3.6.1.1 19728


Open Source Used In Secure Workload 3.6.1.1

This page contains code snippets related to the implementation of a multiple selection view in a web application. The code involves the use of jQuery UI, specifically the `selectmultiple` slider, and includes functionalities for updating the model, handling changes, and managing the slider's behavior.

The code snippet includes handlers for `handle_change` and `handle_click`, which are used to update the model's value when the slider's value changes or when the user clicks on the view. The `update` function is called when the model is changed, ensuring that the view is updated accordingly.

The `handleChange` and `handleChange` functions are used to handle changes in the model's value, updating the slider's position or the view's contents. The `EventMethods` object contains event handlers for different events, such as `slide` and `change`, which are triggered when the slider's value changes or when the user selects a new value.

The `multipleSelectionModel` object implements the functionality for multiple selection, including the `createView` method, which initializes the view and sets up the necessary event handlers.

The `render` function is called when the view is rendered, and it updates the view's contents. The `validateSlideValue` function is used to validate the value of the slider before sending it to the back-end.

Overall, the code snippet is part of a larger web application implementation that utilizes multiple selection functionalities for user interaction, ensuring that the view's state is synchronized with the model's changes, and providing a responsive user experience for selecting multiple options.

---

**Open Source Used In Secure Workload 3.6.1.1**

The code snippet provides an example of how open source technologies can be integrated into secure workloads to enhance functionality and maintain a high level of security. The use of `selectmultiple` slider from jQuery UI demonstrates how developers can leverage existing libraries to enhance their applications, ensuring that security is a core consideration throughout the development process.

---

**Event Methods**

The `events` object contains event types and their corresponding handlers, such as `slide` and `change`, which are used to manage the slider's behavior and to update the view's state.

---

**Multiple Selection Model**

The `multipleSelectionModel` object is an example of how a model can be designed to support multiple selection functionalities. It includes methods for creating views, rendering, and updating the view based on the model's state.

---

**Select View**

The `selectView` object is another example of how a view can be implemented to work with a model. It includes methods for rendering, updating, and handling changes in the view's state, ensuring that the view remains consistent with the underlying model's changes.

---

**Select Multiple View**

The `selectMultipleView` object is designed to handle multiple selection functionalities, including creating views, updating their contents, and handling changes in the model's state. This object is an example of how views can be tailored to specific use cases, such as handling multiple selections in a list or a grid.

---

**Select Multiple Model**

The `selectMultipleModel` object is the model that supports multiple selection functionalities. It includes methods for creating views, updating their contents, and handling changes in the view's state. This object is an example of how models can be designed to support specific functionalities, such as multiple selection.

---

**Select Multiple View**

The `selectMultipleView` object is an example of how views can be designed to work with a model, specifically the `selectMultipleModel`. It includes methods for rendering, updating, and handling changes in the view's state, ensuring that the view remains consistent with the underlying model's changes.

---

**Select Multiple Model**

The `selectMultipleModel` object is designed to support multiple selection functionalities, including creating views, updating their contents, and handling changes in the model's state. This object is an example of how models can be designed to support specific functionalities, such as handling multiple selections in a list or a grid.
function (e) {
        /**
         * Handle when a new value is selected.
         */
        model.set('value', value, {updated_view: this});
    },
});

module.exports = {
    SelectionModel: SelectionModel,
    DropdownView: DropdownView,
    DropdownModel: DropdownModel,
    RadioButtonsView: RadioButtonsView,
    RadioButtonsModel: RadioButtonsModel,
    ToggleButtonsView: ToggleButtonsView,
    ToggleButtonsModel: ToggleButtonsModel,
    SelectView: SelectView,
    SelectModel: SelectModel,
    SelectionSliderView: SelectionSliderView,
    SelectionSliderModel: SelectionSliderModel,
    MultipleSelectionModel: SelectMultipleModel,
    SelectMultipleView: SelectMultipleView,
    SelectMultipleModel: SelectMultipleModel,
};

// Copyright (c) Jupyter Development Team. Licensed under the terms of the Modified BSD License. //
views of the same model as children?n */n var model = view.model;n var accordion_group =
this.model_containers[model.id];n this.children_views.splice(accordion_group.container_index, 1);n delete
this.model_containers[model.id];n accordion_group.remove();n },n

add_child_view: function(model)
{
    /**
     * Called when a child is added to children list.
     */
    var index =
this.containers.length;n var uuid = util.uuid();n var accordion_group = $('div >
')
    .addClass('panel panel-default')
    .appendTo(this.$el);n var accordion_heading = $('div')
    .addClass('panel-heading')
    .appendTo(accordion_group);
    var that = this;n var accordion_toggle = $('a')
    .addClass('accordion-toggle')
    .attr('data-toggle', 'collapse')
    .attr('data-parent', '#
' + this.$el.attr('id'))
    .click(function(ev)
        {n // Calling model.set
            will trigger all of the other views of
            the model to update.
                that.model.set('selected_index',
                index, {updated_view: view});
                that.touch();
            return view;
        }).catch(util.reject('Couldn't add child view
to box', true));
    }).then(function(view) {
        dummy.replaceWith(view.$el);
        that.update_selected_index();
        that.update_titles();
        // Trigger the displayed event of the child view.
        that.displayed.then(function()
            {n view.trigger('displayed', that);n return view;
        });
    }).catch(util.reject('Couldnt add child view
to box', true));

    // Trigger the displayed event of the child view.
    that.displayed.then(function()
        {n view.trigger('displayed', that);n return view;
    });
}

render: function() {
    /**
     * Called when view is rendered.
     */
    var uuid = 'tabs'+util.uuid();n
    this.$tabs = $('div', {id: uuid})
    .addClass('nav')
    .addClass('nav-tabs')
    .appendTo(this.$el);
    this.$tab_contents = $('div', {id: uuid + 'Content'})
    .addClass('tab-content')
    .appendTo(this.$el);
    this.children_views.update(this.model.get('children'));
}

update_attr:
function(name, value) { // TODO: deprecated in 5.0
    if (['padding', 'margin', 'height', 'width'].indexOf(name) !== -1) {
        this.$el.css(name, value);
    } else {
        this.$tabs.css(name, value);
    }
}

add_child_view: function(model) {
    /**
     * Called when a child is added to children list.
     */
    var index =
this.containers.length;n var uuid = util.uuid();n var accordion_group = $('div >
')
    .addClass('panel panel-default')
    .appendTo(this.$el);n var accordion_heading = $('div')
    .addClass('panel-heading')
    .appendTo(accordion_group);
    var that = this;n var accordion_toggle = $('a')
    .addClass('accordion-toggle')
    .attr('data-toggle', 'collapse')
    .attr('data-parent', '#
' + this.$el.attr('id'))
    .click(function(ev)
        {n // Calling model.set
            will trigger all of the other views of
            the model to update.
                that.model.set('selected_index',
                index, {updated_view: that});
                that.touch();
            return that;
        });
}

add_child_view: function(model) {
    /**
     * Called when a child is added to children list.
     */
    var index =
this.containers.length;n var uuid = util.uuid();n var accordion_group = $('div >
')
    .addClass('panel panel-default')
    .appendTo(this.$el);n var accordion_heading = $('div')
    .addClass('panel-heading')
    .appendTo(accordion_group);
    var that = this;n var accordion_toggle = $('a')
    .addClass('accordion-toggle')
    .attr('data-toggle', 'collapse')
    .attr('data-parent', '#
' + this.$el.attr('id'))
    .click(function(ev)
        {n // Calling model.set
            will trigger all of the other views of
            the model to update.
                that.model.set('selected_index',
                index, {updated_view: that});
                that.touch();
            return that;
        });
}

add_child_view: function(model) {
    /**
     * Called when a child is added to children list.
     */
    var index =
this.containers.length;n var uuid = util.uuid();n var accordion_group = $('div >
')
    .addClass('panel panel-default')
    .appendTo(this.$el);n var accordion_heading = $('div')
    .addClass('panel-heading')
    .appendTo(accordion_group);
    var that = this;n var accordion_toggle = $('a')
    .addClass('accordion-toggle')
    .attr('data-toggle', 'collapse')
    .attr('data-parent', '#
' + this.$el.attr('id'))
    .click(function(ev)
        {n // Calling model.set
            will trigger all of the other views of
            the model to update.
                that.model.set('selected_index',
                index, {updated_view: that});
                that.touch();
            return that;
        });
}
var widget = require("./widget");
var $ = require("./jquery");
var _ = require("underscore");

var StringModel = widget.DOMWidgetModel.extend({
    defaults: _.extend({}, widget.DOMWidgetModel.prototype.defaults, {
        value: ",",
        disabled: false,
        description: "",
        placeholder: "",
        _model_name: "StringModel"
    }),
});

var HTMLModel = StringModel.extend({
    defaults: _.extend({}, StringModel.prototype.defaults, {
        _view_name: "HTMLView",
        _model_name: "HTMLModel"
    }),
});

var HTMLView = widget.DOMWidgetView.extend({
    render: function() {
        /**
         * Called when view is rendered.
         */
        this.$el
            .addClass('jupyter-widgets widget-html');
        this.update(); // Set defaults.
    },

    update: function() {
        /**
         * Update the contents of this view
         *
         * Called when the model is changed.  The model may have been
         * changed by another view or by a state update from the back-end.
         * 
         * CAUTION: Do not call this method if the view was not rendered.
         * If the view is not rendered, the update will not occur.
         */
        this.$el.html(this.model.get('value')); // CAUTION! .html(...) CALL MANDATORY!!!
        return HTMLView.__super__.update.apply(this);
    },
});

var LabelModel = StringModel.extend({
    defaults: _.extend({}, StringModel.prototype.defaults, {
        _view_name: "LabelView",
        _model_name: "LabelModel"
    }),
});

var LabelView = widget.DOMWidgetView.extend({
    render: function() {
        /**
         * Called when view is rendered.
         */
        this.$el
            .addClass('jupyter-widgets widget-latex');
        this.update(); // Set defaults.
    },

    update: function() {
        /**
         * Update the contents of this view
         *
         * Called when the model is changed.  The model may have been
         * changed by another view or by a state update from the back-end.
         */
        this.typeset(this.$el, this.model.get('value'));
        return LabelView.__super__.update.apply(this);
    },
});

var TextareaModel = StringModel.extend({
    defaults: _.extend({}, StringModel.prototype.defaults, {
        _view_name: "TextareaView",
        _model_name: "TextareaModel"
    }),
});

var TextareaView = widget.DOMWidgetView.extend({
    render: function() {
        /**
         * Called when view is rendered.
         */
        this.$el
            .addClass('jupyter-widgets widget-hbox widget-textarea');
        this.update(); // Set defaults.
    },

    update: function() {
        /**
         * Update the contents of this view
         *
         * Called when the model is changed.  The model may have been
         * changed by another view or by a state update from the back-end.
         */
        this.$el.html(this.model.get('value')); // CAUTION! .html(...) CALL MANDATORY!!!
        return TextareaView.__super__.update.apply(this);
    },
});
if (e.preventDefault) { e.preventDefault(); }
else { return false; }
}

handleFocusOut: function(e) { /* Prevent a blur from firing if the blur was not user intended. */
    if (e.relatedTarget === null) {
        e.stopPropagation();
        e.preventDefault();
        return false;
    }
},

workaround for the return-key focus loss bug.
if (e.relatedTarget === null) {
    e.stopPropagation();
    e.preventDefault();
    return false;
}
Email addresses, only the domain name should be punycoded. Leave intact. parts[0] + '@' + parts[1]. Avoid `split(regex)` for IE8 compatibility. See #17. strip() .map() fn.join('');.join() result & encoded. Create a map containing the numeric code points of each Unicode character in the string. While JavaScript uses UCS-2 internally, this function will convert a pair of surrogate halves (each of which exposes separate characters) into a single code point. matching UTF-16. * @see `punycode.ucs2.encode` * @see <https://mathiasbynens.be/notes/javascript-encoding>

```javascript
/**
 * Creates an array containing the numeric code points of each Unicode character in the string.
 * @see `punycode.ucs2.decode`
 * @memberOf punycode.ucs2
 * @name encode
 * @param {Array} codePoints The array of numeric code points.
 * @returns {String} The new Unicode string (UCS-2).
 */
function ucs2encode(array) {
    return map(array, function(value) {
        var output = '',
            digit = value > 0xFFFF ? value -= 0x10000 : value;
        if (digit < 26) {
            output += stringFromCharCode(digit + 22);
        } else if (digit < 52) {
            output += stringFromCharCode(digit + 52);
        } else if (digit < 90) {
            output += stringFromCharCode(digit + 85);
        } else {
            output += stringFromCharCode(digit + 85);
        }
        return output;
    }).join('');
}
```

```javascript
/**
 * Converts a Punycode string of ASCII-only symbols to a string of Unicode symbols.
 * @memberOf punycode
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
 */
function decode(input) {
    // Don't use UCS-2
    var output = [],
        inputLength = input.length,
        outLength = 0,
        i = 0,
        n = initialN,
        bias = initialBias,
        basic, j, index, oldi, w, k, v, t,
        ** Cached calculation results */
    // Handle the basic code point: let 'basic' be the number of input code points before the last delimiter, or '0' if there is none, then copy `punycode.ucs2.decode` to the output.
    var basic = input.lastIndexOf(delimiter);
    var v = 0;
    var delta = firstTime ? floor(delta / damp) : delta >> 1;
    delta += floor(delta / numPoints);
    for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
        delta = floor(delta / baseMinusTMin);
    }
    return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
```
function(string) { return regexPunycode.test(string) ? decode(string.slice(4).toLowerCase()) : string; }  * Converts a Unicode string representing a domain name or an email address to a Punycode. Only the non-ASCII parts of the domain name will be converted, i.e. it doesn't matter if you call it with a domain that's already in ASCII. @memberOf punycode @param {String} input The domain name or email address to convert, as a Unicode string. @returns {String} The Punycode representation of the given domain name or email address. @function toASCII(input) { return mapDomain(input, function(string) { return regexNonASCII.test(string) ? 'xn--' + encode(string) : string; }); }

/*--------------------------------------------------------------------------*/

/** Define the public API */

punycode = {
'version': '1.3.2',
'ucs2': {
'decode': ucs2decode,
'encode': ucs2encode
},
'decode': decode,
'encode': encode,
'toASCII': toASCII,
'toUnicode': toUnicode
};

/** Expose `punycode` */

if (
    typeof define == 'function' &&
    typeof define.amd == 'object' &&
    define.amd
) {
    define('punycode', function(){
        return punycode;
    });
} else if (freeExports && freeModule) {
    if (module.exports == freeExports){
        if (true){
            freeModule.exports = punycode;
        } else {
            for (key in punycode) {
                if (punycode.hasOwnProperty(key)) {
                    freeExports[key] = punycode[key];
                }
            }
        }
    }
} else {
    root.punycode = punycode;
}(this));

}).call(this,typeof global !== "undefined" ? global : typeof self !== "undefined" ? self : typeof window !== "undefined" ? window : {})

var log = _dereq_('./log');

function restoreOwnerScroll(ownerDocument, x, y) {
    if (ownerDocument.defaultView &&
        x !== ownerDocument.defaultView.pageXOffset || y !== ownerDocument.defaultView.pageYOffset) {
        ownerDocument.defaultView.scrollTo(x, y);
    }
}

function cloneCanvasContents(canvas, clonedCanvas) {
    try {
        if (clonedCanvas) {
            clonedCanvas.width = canvas.width;
            clonedCanvas.height = canvas.height;
            clonedCanvas.getContext("2d").putImageData(canvas.getContext("2d").getImageData(0, 0, canvas.width, canvas.height), 0, 0);
        }
    } catch(e) {
        log("Unable to copy canvas content from", canvas, e);
    }
}

function cloneNode(node, javascriptEnabled) {
    var clone = node.nodeType === 3 ? document.createTextNode(node.nodeValue) : node.cloneNode(false);

    var child = node.firstChild;
    while(child) {
        if (javascriptEnabled === true || child.nodeType !== 1 || child.nodeName !== 'SCRIPT') {
            clone.appendChild(cloneNode(child, javascriptEnabled));
        }
        child = child.nextSibling;
    }

    if (node.nodeType === 1) {
        clone.scrollTop = node.scrollTop;
        clone.scrollLeft = node.scrollLeft;
        if (node.nodeName === "CANVAS") {
            cloneCanvasContents(canvas, clonedCanvas);
        } else if (node.nodeName === "TEXTAREA") {
            clone.value = node.value;
        }
    }

    return clone;
}

function initNode(node) {
    if (node.nodeType === 1) {
        node.scrollTop = node._scrollTop;
        node.scrollLeft = node._scrollLeft;
        var child = node.firstChild;
        while(child) {
            if (javascriptEnabled === true || child.nodeType !== 1 || child.nodeName !== 'SCRIPT') {
                child = child.nextSibling;
            } else if (node.nodeName === "CANVAS") {
                cloneCanvasContents(node, clone);
            } else if (node.nodeName === "TEXTAREA") {
                clone.value = node.value;
            }
        }
    }
    return clone;
}

function getComputedStyle(node) { var documentElement = cloneNode(ownerDocument.documentElement, options.javascriptEnabled); var container = containerDocument.createElement("iframe"); container.className = "html2canvas-container";

container.style.visibility = "hidden";
container.style.position = "fixed";
container.style.left = "-100000px";
container.style.top = "0px";
container.style.border = "0";
container.width = width;
container.height = height;
container.scrolling = "no"; // iOS won't scroll without it;
containerDocument.body.appendChild(container);

return new Promise(function(resolve) { var documentClone = container.contentWindow.document;

*/

}
container.contentWindow.onload = container.onload = function() {
    var interval = setInterval(function() {
        if (documentClone.body.childNodes.length > 0) {
            initNode(documentClone.documentElement);
            clearInterval(interval);
            if (options.type !== "view") {
                documentClone.documentElement.style.top = (-y) + "px";
                documentClone.documentElement.style.left = (-x) + "px";
            }
            documentClone.write("";
        } else {
            resolve(container);
        }
    }, 50);
};

documentClone.open();

documentClone.write("<!DOCTYPE html><html></html>");

// Chrome scrolls the parent document for some reason after the write to the cloned window
restoreOwnerScroll(ownerDocument, x, y);

documentClone.replaceChild(documentClone.adoptNode(documentElement), documentClone.documentElement);

documentClone.close();

http://dev.w3.org/csswg/css-color/

function Color(value) {
    this.r = 0;
    this.g = 0;
    this.b = 0;
    this.a = null;
    var result = this.fromArray(value) ||
        this.namedColor(value) ||
        this.rgb(value) ||
        this.rgba(value) ||
        this.hex6(value) ||
        this.hex3(value);
}

Color.prototype.darken = function(amount) {
    var a = 1 - amount;
    return new Color([Math.round(this.r * a),
        Math.round(this.g * a),
        Math.round(this.b * a),
        this.a]);
};

Color.prototype.isTransparent = function() {
    return this.a === 0;
};

Color.prototype.isBlack = function() {
    return this.r === 0 && this.g === 0 && this.b === 0;
};

Color.prototype.fromArray = function(array) {
    if (Array.isArray(array)) {
        this.r = Math.min(array[0], 255);
        this.g = Math.min(array[1], 255);
        this.b = Math.min(array[2], 255);
        if (array.length > 3) {
            this.a = array[3];
        }
    }
    return (Array.isArray(array));
};

var _hex3 = /\^#([a-f0-9]{3})$/i;

Color.prototype.hex3 = function(value) {
    var match = null;
    if ((match = value.match(_hex3)) !== null) {
        this.r = parseInt(match[1][0] + match[1][0], 16);
        this.g = parseInt(match[1][1] + match[1][1], 16);
        this.b = parseInt(match[1][2] + match[1][2], 16);
    }
    return match !== null;
};

var _hex6 = /^#([a-f0-9]{6})$/i;

Color.prototype.hex6 = function(value) {
    var match = null;
    if ((match = value.match(_hex6)) !== null) {
        this.r = parseInt(match[1].substring(0, 2), 16);
        this.g = parseInt(match[1].substring(2, 4), 16);
        this.b = parseInt(match[1].substring(4, 6), 16);
    }
    return match !== null;
};

var _rgb = /^rgb\(\s*(\d{1,3})\s*,\s*(\d{1,3})\s*,\s*(\d{1,3})\s*\)$/;

Color.prototype.rgb = function(value) {
    var match = null;
    if ((match = value.match(_rgb)) !== null) {
        this.r = Number(match[1]);
        this.g = Number(match[2]);
        this.b = Number(match[3]);
    }
    return match !== null;
};

Color.prototype.rgba = function(value) {
    var match = null;
    if ((match = value.match(_rgba)) !== null) {
        this.r = Number(match[1]);
        this.g = Number(match[2]);
        this.b = Number(match[3]);
        this.a = Number(match[4]);
    }
    return match !== null;
};

Color.prototype.namedColor = function(value) {
    value = value.toLowerCase();
    var color = colors[value];
    if (color) {
        this.r = color[0];
        this.g = color[1];
        this.b = color[2];
    } else if (value !== "transparent") {
        var color = colors[value.toLowerCase()];
        if (color) {
            this.r = color[0];
            this.g = color[1];
            this.b = color[2];
        } else {
            this.r = this.g = this.b = 0;
        }
    } else if (color) {
        this.r = color[0];
        this.g = color[1];
        this.b = color[2];
    } else {
        this.r = this.g = this.b = 0;
    }

    return this.a !== null && this.a !== 1 ?
        "rgba(\" + this.rgba() + ")" : 
        "rgb(\" + this.rgb() + ")";
}

Color.prototype.toString = function() {
    return this.a !== null && this.a !== 1 ?
        "rgba(\" + this.rgba() + ")" : 
        "rgb(\" + this.rgb() + ")";
}

var colors = {
    "aliceblue": [240, 248, 255],
    "antiquewhite": [250, 235, 215],
    "aquamarine": [127, 255, 212],
    "azure": [240, 245, 255],
    "beige": [245, 245, 220],
    "bisque": [255, 228, 196],
    "black": [0, 0, 0],
    "blanchedalmond": [255, 255, 205],
    "blue": [0, 0, 255],
    "blueviolet": [138, 43, 226],
    "brown": [165, 42, 42],
    "burlywood": [222, 184, 135],
    "cadetblue": [95, 158, 160],
    "chartreuse": [127, 255, 0],
    "chocolate": [210, 105, 30],
    "coral": [255,
true;
        log.options.start = Date.now();
    }

    options.async = typeof(options.async) === "undefined" ?
        html2canvasCloneIndex++;
    options = options || {};
    if (options.logging) {
        log.options.logging =
            _dereq_('./proxy').loadUrlDocument;
var getBounds = utils.getBounds;

var html2canvasCloneIndex = 0;

function html2canvas(nodeList, options) {
    var index
        _dereq_('./proxy').loadUrlDocument;
var getBounds = utils.getBounds;

var html2canvasCloneIndex = 0;

function html2canvas(nodeList, options) {
    var index

true : options.async;

options.allowTaint = typeof(options.allowTaint) === "undefined" ? false : options.allowTaint;

options.removeContainer = typeof(options.removeContainer) === "undefined" ? true : options.removeContainer;

options.javascriptEnabled = typeof(options.javascriptEnabled) === "undefined" ? false : options.javascriptEnabled;

options.imageTimeout = typeof(options.imageTimeout) === "undefined" ? 10000 : options.imageTimeout;

options.renderer = typeof(options.renderer) === "function" ? options.renderer : CanvasRenderer;

options.strict = !options.strict;

if (typeof(nodeList) !== "string") {
    return Promise.reject("Proxy must be used when rendering url");
}

var width = options.width != null ? options.width : window.innerWidth;

var height = options.height != null ? options.height : window.innerHeight;

return loadUrlDocument(absoluteUrl(nodeList), options.proxy, document, width, height, options).then(function(container) {
    return renderWindow(container.contentWindow.document.documentElement, container, options, width, height);
});

var node = ((nodeList === undefined) ? [document.documentElement] : ((nodeList.length) ? nodeList : [nodeList]))[0];

node.setAttribute(html2canvasNodeAttribute + index, index);

return renderDocument(node.ownerDocument, options, node.ownerDocument.defaultView.innerWidth, node.ownerDocument.defaultView.innerHeight, node.ownerDocument.defaultView.innerHeight, node.ownerDocument.defaultView.innerHeight, index).then(function(canvas) {

    if (typeof(options.onrendered) === "function") {
        log("options.onrendered is deprecated, html2canvas returns a Promise containing the canvas");

        options.onrendered(canvas);
    }

    return canvas;
});

html2canvas.CanvasRenderer = CanvasRenderer;

html2canvas.NodeContainer = NodeContainer;

html2canvas.log = log;

html2canvas.utils = utils;

var html2canvasExport = (typeof(document) === "undefined" || typeof(Object.create) !== "function" ||
                        typeof(document.createElement("canvas").getContext) !== "function") ? function() {
    return Promise.reject("No canvas support");
} : html2canvas;

module.exports = html2canvasExport;

if (typeof(define) === 'function' && define.amd) {
    define('html2canvas', [], function() {
        return html2canvasExport;
    });
}

function renderDocument(document, options, windowWidth, windowHeight, html2canvasIndex) {

    var attributeName = html2canvasNodeAttribute + html2canvasIndex;

    var selector = "[" + attributeName + "='" + html2canvasIndex + "']";

    document.querySelector(selector).removeAttribute(attributeName);

    var clonedWindow = container.contentWindow;

    var node = clonedWindow.document.querySelector(selector);

    var oncloneHandler = (typeof(options.onclone) === "function") ?
        Promise.resolve(options.onclone(clonedWindow.document)) : Promise.resolve(true);

    return oncloneHandler.then(function() {

        var bounds = getBounds(node);

        var width = options.width != null ? options.width : bounds.width;

        var height = options.height != null ? options.height : bounds.height;

        var parser = new NodeParser(node, renderer, support, imageLoader, options);

        return parser.ready.then(function() {

            var canvas;

            if (options.type === "view") {
                canvas = crop(renderer.canvas, { width: renderer.canvas.height, height: renderer.canvas.height, top: 0, left: 0, x: 0, y: 0 });
            } else if (node === clonedWindow.document.body) {
                canvas = clonedWindow.document.documentElement;
            } else {
            }

            cleanupContainer(container, options);

            return canvas;
        });
    });
}

log(\"Cleaned up container\");\n }\n}\n\nfunction crop(canvas, bounds) {\n var croppedCanvas =
document.createElement(\"canvas\");\n var x1 = Math.min(canvas.width - 1, Math.max(0, bounds.left));\n var x2
= Math.min(canvas.width, Math.max(1, bounds.left + bounds.width));\n var y1 = Math.min(canvas.height - 1,
Math.max(0, bounds.top));\n var y2 = Math.min(canvas.height, Math.max(1, bounds.top + bounds.height));\n
croppedCanvas.width = bounds.width;\n croppedCanvas.height = bounds.height;\n var width = x2-x1;\n var
height = y2-y1;\n log(\"Cropping canvas at:\", \"left:\", bounds.left, \"top:\", bounds.top, \"width:\", width,
\"height:\", height);\n log(\"Resulting crop with width\", bounds.width, \"and height\", bounds.height, \"with x\",
x1, \"and y\", y1);\n croppedCanvas.getContext(\"2d\").drawImage(canvas, x1, y1, width, height, bounds.x,
bounds.y, width, height);\n return croppedCanvas;\n}\n\nfunction documentWidth (doc) {\n return Math.max(\n
Math.max(doc.body.scrollWidth, doc.documentElement.scrollWidth),\n
Math.max(doc.body.offsetWidth,
doc.documentElement.offsetWidth),\n
Math.max(doc.body.clientWidth, doc.documentElement.clientWidth)\n
);\n}\n\nfunction documentHeight (doc) {\n return Math.max(\n
Math.max(doc.body.scrollHeight,
doc.documentElement.scrollHeight),\n
Math.max(doc.body.offsetHeight,
doc.documentElement.offsetHeight),\n
Math.max(doc.body.clientHeight, doc.documentElement.clientHeight)\n
);\n}\n\nfunction absoluteUrl(url) {\n var link = document.createElement(\"a\");\n link.href = url;\n link.href
= link.href;\n return
link;\n}\n\n},{\"./clone\":2,\"./imageloader\":11,\"./log\":13,\"./nodecontainer\":14,\"./nodeparser\":15,\"./proxy\":16,
\"./renderers/canvas\":20,\"./support\":22,\"./utils\":26}],5:[function(_dereq_,module,exports){\nvar log =
_dereq_('./log');\nvar smallImage = _dereq_('./utils').smallImage;\n\nfunction DummyImageContainer(src) {\n
this.src = src;\n log(\"DummyImageContainer for\", src);\n if (!this.promise || !this.image) {\n
log(\"Initiating DummyImageContainer\");\n
DummyImageContainer.prototype.image = new Image();\n
var image = this.image;\n
DummyImageContainer.prototype.promise = new Promise(function(resolve, reject)
{\n
image.onload = resolve;\n
image.onerror = reject;\n
image.src = smallImage();\n
if
(image.complete === true) {\n
resolve(image);\n
}\n
});\n }\n}\n\nmodule.exports =
DummyImageContainer;\n\n},{\"./log\":13,\"./utils\":26}],6:[function(_dereq_,module,exports){\nvar smallImage =
_dereq_('./utils').smallImage;\n\nfunction Font(family, size) {\n var container = document.createElement('div'),\n
img = document.createElement('img'),\n
span = document.createElement('span'),\n
sampleText = 'Hidden
Text',\n
baseline,\n
middle;\n\n container.style.visibility = \"hidden\";\n container.style.fontFamily =
family;\n container.style.fontSize = size;\n container.style.margin = 0;\n container.style.padding = 0;\n\n
document.body.appendChild(container);\n\n img.src = smallImage();\n img.width = 1;\n img.height = 1;\n\n
img.style.margin = 0;\n img.style.padding = 0;\n img.style.verticalAlign = \"baseline\";\n\n
span.style.fontFamily = family;\n span.style.fontSize = size;\n span.style.margin = 0;\n span.style.padding =
0;\n\n span.appendChild(document.createTextNode(sampleText));\n container.appendChild(span);\n
container.appendChild(img);\n baseline = (img.offsetTop - span.offsetTop) + 1;\n\n
container.removeChild(span);\n container.appendChild(document.createTextNode(sampleText));\n\n
container.style.lineHeight = \"normal\";\n img.style.verticalAlign = \"super\";\n\n middle = (img.offsetTopcontainer.offsetTop) + 1;\n\n document.body.removeChild(container);\n\n this.baseline = baseline;\n
this.lineWidth = 1;\n this.middle = middle;\n}\n\nmodule.exports =
Font;\n\n},{\"./utils\":26}],7:[function(_dereq_,module,exports){\nvar Font = _dereq_('./font');\n\nfunction
FontMetrics() {\n this.data = {};\n}\n\nFontMetrics.prototype.getMetrics = function(family, size) {\n if
(this.data[family + \"-\" + size] === undefined) {\n
this.data[family + \"-\" + size] = new Font(family, size);\n
}\n return this.data[family + \"-\" + size];\n};\n\nmodule.exports =
FontMetrics;\n\n},{\"./font\":6}],8:[function(_dereq_,module,exports){\nvar utils = _dereq_('./utils');\nvar
getBounds = utils.getBounds;\nvar loadUrlDocument = _dereq_('./proxy').loadUrlDocument;\n\nfunction
FrameContainer(container, sameOrigin, options) {\n this.image = null;\n this.src = container;\n var self =
this;\n var bounds = getBounds(container);\n this.promise = (!sameOrigin ? this.proxyLoad(options.proxy,
bounds, options) : new Promise(function(resolve) {\n
if (container.contentWindow.document.URL ===
\"about:blank\" || container.contentWindow.document.documentElement == null) {\n

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ImageContainer(src, true); } else if (this.options.proxy) { return new ProxyImageContainer(src, this.options.proxy); } else { return new DummyImageContainer(src); } } else if (imageData.method === "linear-gradient") { return new LinearGradientContainer(imageData); } else if (imageData.method === "gradient") { return new WebkitGradientContainer(imageData); } else if (imageData.method === "svg") { return new SVGNodeContainer(imageData.args[0], this.support.svg); } else if (imageData.method === "IFRAME") { return new FrameContainer(imageData.args[0], this.isSameOrigin(imageData.args[0].src), this.options); } else { return new DummyImageContainer(imageData); }

ImageLoader.prototype.isSVG = function(src) {
    return src.substring(src.length - 3).toLowerCase() === "svg" || SVGContainer.prototype.isInline(src);
};

ImageLoader.prototype.imageExists = function(images, src) {
    return images.some(function(image) {
        return image.src === src;
    });
};

ImageLoader.prototype.isSameOrigin = function(url) {
    return (this.getOrigin(url) === this.origin);
};

ImageLoader.prototype.getOrigin = function(url) {
    var link = this.link || (this.link = document.createElement("a"));
    link.href = url;
    link.href = link.href; // IE9, LOL! - http://jsfiddle.net/niklasvh/2e48b/
    return link.protocol + link.hostname + link.port;
};

ImageLoader.prototype.promise = function(container) {
    return this.timeout(container, this.options.imageTimeout)['catch'](function() {
        var dummy = new DummyImageContainer(container.src);
        return dummy.promise.then(function(image) {
            container.image = image;
        });
    });
};

module.exports = ImageLoader;
this.y1 = 1 - this.y0;
        } else {
            this.x0 = ratio;
            this.x1 = 1 - this.x0;
        }
        break;
    }
}

this.colorStops = imageData.args.slice(hasDirection ? 1 : 0).map(function(colorStop) {
    var colorStopMatch = colorStop.match(GradientContainer.REEXP_COLORSTOP);
    var value = +colorStopMatch[2];
    var unit = value === 0 ? "\%" : colorStopMatch[3];
    // treat \% as \%0
    return { color: new Color(colorStopMatch[1]),
        // TODO: support absolute stop positions (e.g., compute gradient line length & convert px to ratio)
        stop: unit === "\%" ? value / 100 : null
    }
}

if (this.colorStops[0].stop === null) {
    this.colorStops[0].stop = 0;
}

if (this.colorStops[this.colorStops.length - 1].stop === null) {
    this.colorStops[this.colorStops.length - 1].stop = 1;
}

// calculates and fills-in explicit stop positions when omitted from rule
if (this.colorStops.forEach(colorStop, index) {
    if (colorStop.stop === null) {
        this.colorStops[index] = ((find.stop - this.colorStops[index - 1].stop) / (count + 1)) + this.colorStops[index - 1].stop;
    }
})

this.colorStops = this.colorStops.slice(1);

LinearGradientContainer.prototype = Object.create(GradientContainer.prototype);

// TODO: support <angle> (e.g. -?\d{1,3}(?:\.\d+)deg, etc. : https://developer.mozilla.org/docs/Web/CSS/angle

module.exports = LinearGradientContainer;

var linearGradientDirection = /%s*:\left|\right|top|left|right|bottom|center\d{1,3}(?:\.\d+)?(?:\%|\$)/,

var ColorStops = this.colorStops.slice(1);
borders in old IE are throwing 'medium' for demo.html
};

NodeContainer.prototype.color = function(attribute)

NodeContainer.prototype.cssFloat = function(attribute)

NodeContainer.prototype.fontWeight = function()

NodeContainer.prototype.parseClip = function()

NodeContainer.prototype.parseBackgroundImages = function()

NodeContainer.prototype.cssList = function(property, index)

NodeContainer.prototype.parseBackgroundSize = function(bounds, image, index)

NodeContainer.prototype.parseBackgroundPosition = function(bounds, image, index)

NodeContainer.prototype.parseTextShadows = function()

NodeContainer.prototype.parseTransform = function()
0, 0, 1, 0, 0];\n }\n return this.transformMatrix;\n};\n\nNodeContainer.prototype.parseBounds = function() {\n
return this.bounds || (this.bounds = this.hasTransform() ? offsetBounds(this.node) :
getBounds(this.node));\n};\n\nNodeContainer.prototype.hasTransform = function() {\n return
this.parseTransformMatrix().join(\",\") !== \"1,0,0,1,0,0\" || (this.parent &&
this.parent.hasTransform());\n};\n\nNodeContainer.prototype.getValue = function() {\n var value =
this.node.value || \"\";\n if (this.node.tagName === \"SELECT\") {\n
value = selectionValue(this.node);\n }
else if (this.node.type === \"password\") {\n
value = Array(value.length + 1).join('\\u2022'); // jshint
ignore:line\n }\n return value.length === 0 ? (this.node.placeholder || \"\") :
value;\n};\n\nNodeContainer.prototype.MATRIX_PROPERTY =
/(matrix|matrix3d)\\((.+)\\)/;\nNodeContainer.prototype.TEXT_SHADOW_PROPERTY =
/((rgba|rgb)\\([^\\)]+\\)(\\s-?\\d+px){0,})/g;\nNodeContainer.prototype.TEXT_SHADOW_VALUES = /(?\\d+px)|(#.+)|(rgb\\(.+\\))|(rgba\\(.+\\))/g;\nNodeContainer.prototype.CLIP = /^rect\\((\\d+)px,? (\\d+)px,? (\\d+)px,?
(\\d+)px\\)$/;\n\nfunction selectionValue(node) {\n var option = node.options[node.selectedIndex || 0];\n return
option ? (option.text || \"\") : \"\";\n}\n\nfunction parseMatrix(match) {\n if (match && match[1] === \"matrix\")
{\n
return match[2].split(\",\").map(function(s) {\n
return parseFloat(s.trim());\n
});\n } else if
(match && match[1] === \"matrix3d\") {\n
var matrix3d = match[2].split(\",\").map(function(s) {\n
return
parseFloat(s.trim());\n
});\n
return [matrix3d[0], matrix3d[1], matrix3d[4], matrix3d[5], matrix3d[12],
matrix3d[13]];\n }\n}\n\nfunction isPercentage(value) {\n return value.toString().indexOf(\"%\") !== 1;\n}\n\nfunction removePx(str) {\n return str.replace(\"px\", \"\");\n}\n\nfunction asFloat(str) {\n return
parseFloat(str);\n}\n\nmodule.exports =
NodeContainer;\n\n},{\"./color\":3,\"./utils\":26}],15:[function(_dereq_,module,exports){\nvar log =
_dereq_('./log');\nvar punycode = _dereq_('punycode');\nvar NodeContainer = _dereq_('./nodecontainer');\nvar
TextContainer = _dereq_('./textcontainer');\nvar PseudoElementContainer =
_dereq_('./pseudoelementcontainer');\nvar FontMetrics = _dereq_('./fontmetrics');\nvar Color =
_dereq_('./color');\nvar StackingContext = _dereq_('./stackingcontext');\nvar utils = _dereq_('./utils');\nvar bind =
utils.bind;\nvar getBounds = utils.getBounds;\nvar parseBackgrounds = utils.parseBackgrounds;\nvar offsetBounds
= utils.offsetBounds;\n\nfunction NodeParser(element, renderer, support, imageLoader, options) {\n log(\"Starting
NodeParser\");\n this.renderer = renderer;\n this.options = options;\n this.range = null;\n this.support =
support;\n this.renderQueue = [];\n this.stack = new StackingContext(true, 1, element.ownerDocument, null);\n
var parent = new NodeContainer(element, null);\n if (options.background) {\n
renderer.rectangle(0, 0,
renderer.width, renderer.height, new Color(options.background));\n }\n if (element ===
element.ownerDocument.documentElement) {\n
// http://www.w3.org/TR/css3-background/#specialbackgrounds\n
var canvasBackground = new NodeContainer(parent.color('backgroundColor').isTransparent() ?
element.ownerDocument.body : element.ownerDocument.documentElement, null);\n
renderer.rectangle(0, 0,
renderer.width, renderer.height, canvasBackground.color('backgroundColor'));\n }\n parent.visibile =
parent.isElementVisible();\n this.createPseudoHideStyles(element.ownerDocument);\n
this.disableAnimations(element.ownerDocument);\n this.nodes =
flatten([parent].concat(this.getChildren(parent)).filter(function(container) {\n
return container.visible =
container.isElementVisible();\n }).map(this.getPseudoElements, this));\n this.fontMetrics = new
FontMetrics();\n log(\"Fetched nodes, total:\", this.nodes.length);\n log(\"Calculate overflow clips\");\n
this.calculateOverflowClips();\n log(\"Start fetching images\");\n this.images =
imageLoader.fetch(this.nodes.filter(isElement));\n this.ready = this.images.ready.then(bind(function() {\n
log(\"Images loaded, starting parsing\");\n
log(\"Creating stacking contexts\");\n
this.createStackingContexts();\n
log(\"Sorting stacking contexts\");\n
this.sortStackingContexts(this.stack);\n
this.parse(this.stack);\n
log(\"Render queue created with \" +
this.renderQueue.length + \" items\");\n
return new Promise(bind(function(resolve) {\n
if
(!options.async) {\n
this.renderQueue.forEach(this.paint, this);\n
resolve();\n
} else if
(typeof(options.async) === \"function\") {\n
options.async.call(this, this.renderQueue, resolve);\n
}

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```javascript
if (this.renderQueue.length > 0) {
    this.renderIndex = 0;
    this.asyncRenderer(this.renderQueue, resolve);
} else {
    resolve();
}

this.nodes.forEach(function (container) {
    if (isElement(container)) {
        if (isPseudoElement(container)) {
            container.appendToDOM(this);
        } else if (container.border guards.length > 0) {
            container.border guards.push(index);
        }
    }

    var clip = (container.css('overflow') === 'hidden') ? [container.border guards.clip] : [
        this.asyncRenderer(container, resolve, asyncTimer);
        if (queue.length === this.renderIndex) {
            resolve();
        } else if (asyncTimer + 20 > Date.now()) {
            this.asyncRenderer(queue, resolve, asyncTimer);
        } else {
            setTimeout(bind(function () {
                this.asyncRenderer(queue, resolve);
            }, this), 0);
        }
    } else if (isTextNode(container)) {
        container.clip = hasParentClip(container) ? container.parent.clip : [null];
    }

    if (!isPseudoElement(container)) {
        container.bounds = null;
    }
});

function hasParentClip(container) {
    return container.parent && container.parent.clip.length;
}

NodeParser.prototype asyncRenderer = function (queue, resolve, asyncTimer) {
    var queueIndex = asyncTimer || Date.now();
    this.paint(queue[this.renderIndex++]);
    if (queue.length === this.renderIndex) {
        resolve();
    } else if (asyncTimer + 20 > Date.now()) {
        this.asyncRenderer(queue, resolve, asyncTimer);
    } else {
        setTimeout(bind(function () {
            this.asyncRenderer(queue, resolve);
        }, this), 0);
    }
};

NodeParser.prototype createPseudoHideStyles = function (document) {
    this.createStyles(document, '.' + PseudoElementContainer.prototype.PSEUDO_HIDE_ELEMENT_CLASS_BEFORE + ':before { content: "\n    !important; display: none !important; }' +
        '.' + PseudoElementContainer.prototype.PSEUDO_HIDE_ELEMENT_CLASS_AFTER + ':after { content: "\n    !important; display: none !important; }');
}

NodeParser.prototype disableAnimations = function (document) {
    this.createStyles(document, '* { -webkit-animation: none !important; -moz-animation: none !important; -o-animation: none !important; animation: none !important; -webkit-transition: none !important; -moz-transition: none !important; -o-transition: none !important; transition: none !important; }');
}

NodeParser.prototype createStyles = function (document, styles) {
    var hidePseudoElements = document.createElement('style');
    hidePseudoElements.innerHTML = styles;
    document.body.appendChild(hidePseudoElements);
}

NodeParser.prototype.getPseudoElements = function (container) {
    var nodes = [[container]];
    if (container.nodeType === Node.ELEMENT_NODE) {
        var before = this.getPseudoElement(container, ':before');
        var after = this.getPseudoElement(container, ':after');

        if (before) {
            nodes.push(before);
        }

        if (after) {
            nodes.push(after);
        }
    }
    return flatten(nodes);
}

function toCamelCase(str) {
    return str.replace(/(-[a-z])/g, function (match){
        return match.toUpperCase().replace('-', '');
    });
}

NodeParser.prototype.getPseudoElement = function (container, type) {
    var style = container.computedStyle(type);
    if (!style || !style.content || style.content === 'none' || style.content === '-moz-alt-content' || style.display === '-none') {
        return null;
    }

    var content = stripQuotes(style.content);
    var isImage = content.substr(0, 3) === 'url';
    var pseudoNode = document.createElement(isImage ? 'img' : 'html2canvaspseudoelement');
    var pseudoContainer = new PseudoElementContainer(pseudoNode, container, type);

    for (var i = style.length-1; i >= 0; i--) {
        pseudoNode.style[style.item(i)] = style[style.item(i)];
    }

    pseudoNode.className = PseudoElementContainer.prototype.PSEUDO_HIDE_ELEMENT_CLASS_BEFORE + ' ' + PseudoElementContainer.prototype.PSEUDO_HIDE_ELEMENT_CLASS_AFTER;

    if (isImage) {
        pseudoNode.src = parseBackgrounds(content)[0].args[0];
        return [pseudoContainer];
    } else {
        var text = document.createTextNode(content);
        pseudoNode.appendChild(text);
        return [pseudoContainer, new
```
descendants, including inline tables and inline blocks.

var stackLevel0 = stack.contexts.concat(descendantNonFloats.filter(isPositioned)).filter(zIndex0); // 6. the child stacking contexts with stack level 0 and the positioned descendants with stack level 0.

var text = stack.children.filter(isTextNode).filter(hasText); // 7. the child stacking contexts with positive stack levels (least positive first).

negativeZIndex.concat(nonInlineNonPositionedDescendants).concat(nonPositionedFloats)
.concat(inFlow).concat(stackLevel0).concat(text).concat(positiveZIndex).forEach(function(container) {
    this.renderQueue.push(container);
    if (isStackingContext(container)) {
        this.parse(container);
        this.renderQueue.push(new ClearTransform());
    }
});

NodeParser.prototype.paint = function(container) {
    try {
        if (container instanceof ClearTransform) {
            this.renderer.ctx.restore();
        } else if (isTextNode(container)) {
            if (isPseudoElement(container.parent)) {
                container.parent.appendToDOM();
            }
            this.paintText(container);
            if (isPseudoElement(container.parent)) {
                container.parent.cleanDOM();
            }
        } else {
            this.paintNode(container);
        }
    } catch(e) {
        log(e);
        if (this.options.strict) {
            throw e;
        }
    }
};

NodeParser.prototype.paintNode = function(container) {
    if (isStackingContext(container)) {
        this.renderer.setOpacity(container.opacity);
        this.renderer.ctx.save();
        if (container.hasTransform()) {
            this.renderer.setTransform(container.parseTransform());
        }
    }

    if (container.node.nodeName === "INPUT" && container.node.type === "checkbox") {
        this.paintCheckbox(container);
    } else if (container.node.nodeName === "INPUT" && container.node.type === "radio") {
        this.paintRadio(container);
    } else {
        this.paintElement(container);
    }
};

NodeParser.prototype.paintElement = function(container) {
    var bounds = container.parseBounds();

    this.renderer.clip(container.backgroundClip, function() {
        this.renderer.renderBackground(container, bounds, container.borders.borders.map(getWidth));
    }, this);

    this.renderer.clip(container.clip, function() {
        this.renderer.renderBorders(container.borders.borders);
    }, this);

    this.renderer.clip(container.backgroundClip, function() {
        switch (container.node.nodeName) {
            case "svg":
            case "IFRAME":
                var imgContainer = this.images.get(container.node);
                if (imgContainer) {
                    this.renderer.renderImage(container, bounds, container.borders, imgContainer);
                } else {
                    log("Error loading <" + container.node.nodeName + ">", container.node);
                }
                break;
            case "IMG":
                var imageContainer = this.images.get(container.node.src);
                if (imageContainer) {
                    this.renderer.renderImage(container, bounds, container.borders, imageContainer);
                } else {
                    log("Error loading <img>", container.node.src);
                }
                break;
            case "CANVAS":
                this.renderer.renderImage(container, bounds, container.borders, {image: container.node});
                break;
            case "SELECT":
            case "TEXTAREA":
                this.paintFormValue(container);
                break;
        }
    }, this);
};

NodeParser.prototype.paintCheckbox = function(container) {
    var b = container.parseBounds();

    var size = Math.min(b.width, b.height);
    var bounds = {width: size - 1, height: size - 1, top: b.top, left: b.left};
    var r = [3, 3];
    var radius = [r, r, r, r];

    var borders = [1,1,1,1].map(function(w) {
        return {color: new Color('#A5A5A5'), width: w};
    });

    var borderPoints = calculateCurvePoints(bounds, radius, borders);

    this.renderer.clip(container.backgroundClip, function() {
        this.renderer.rectangle(bounds.left + 1, bounds.top + 1, bounds.width - 2, bounds.height - 2, new Color('#DEDEDE'));
        this.renderer.renderBorders(calculateBorders(borders, bounds, borderPoints, radius));
        if (container.node.checked) {
            this.renderer.font(new Color('#424242'), 'normal', 'normal', 'bold', (size - 3) + "px", 'arial');
            this.renderer.text("\u2714", bounds.left + size / 6, bounds.top + size - 1);
        }
    }, this);
};

NodeParser.prototype.paintRadio = function(container) {
    var bounds = container.parseBounds();

    var size = Math.min(bounds.width, bounds.height) - 2;

    this.renderer.clip(container.backgroundClip, function() {
        this.renderer.circleStroke(bounds.left + 1, bounds.top + 1, size, new Color('#DEDEDE'), 1, new Color('#A5A5A5'));
        if (container.node.checked) {
            this.renderer.circle(Math.ceil(bounds.left + size / 4) + 1, Math.ceil(bounds.top + size / 4) + 1, Math.ceil(size / 2), new Color('#DEDEDE'));
        }
    }, this);
};

NodeParser.prototype.paintFormValue = function(container) {
    var value = container.parseValue();

    var valueContainer = {value: value, checked: container.node.checked};

    this.renderer.clip(container.backgroundClip, function() {
        this.renderer.renderImage(container, bounds, container.borders, valueContainer);
        if (container.node.checked) {
            this.renderer.text(value, bounds.left + size / 6, bounds.top + size - 1);
        }
    }, this);
};

Open Source Used In Secure Workload 3.6.1.1 19751
var value = container.getValue();
if (value.length > 0) {
    var document = container.node.ownerDocument;
    var wrapper = document.createElement('html2canvaswrapper');
    var properties = ['lineHeight', 'textAlign', 'fontFamily', 'fontWeight', 'fontSize', 'color', 'paddingTop', 'paddingRight', 'paddingBottom', 'width', 'height', 'borderLeftStyle', 'borderTopStyle', 'borderLeftWidth', 'borderTopWidth', 'boxSizing', 'whiteSpace', 'wordWrap'];
    properties.forEach(function(property) {
        try {
            wrapper.style[property] = container.css(property);
        } catch(e) {
            // Older IE has issues with "border"
            log("html2canvas: Parse: Exception caught in renderFormValue: " + e.message);
        }
    });
    var bounds = container.parseBounds();
    wrapper.style.position = 'fixed';
    wrapper.style.left = bounds.left + "px";
    wrapper.style.top = bounds.top + "px";
    wrapper.textContent = value;
    document.body.appendChild(wrapper);
    this.paintText(new TextContainer(wrapper.firstChild, container));
}

document.body.removeChild(wrapper);

NodeParser.prototype.paintText = function(container) {
    container.applyTextTransform();
    var characters = punycode.ucs2.decode(container.node.data);
    var textList = (!this.options.letterRendering || noLetterSpacing(container)) && !hasUnicode(container.node.data) ? getWords(characters) : characters.map(function(character) {
        return punycode.ucs2.encode([character]);
    });
    var weight = container.parent.fontWeight();
    var size = container.parent.css('fontSize');
    var family = container.parent.css('fontFamily');
    var shadows = container.parent.parseTextShadows();
    this.renderer.font(container.parent.color('color'), container.parent.css('fontStyle'), container.parent.css('fontVariant'), weight, size, family);
    if (shadows.length) {
        // TODO: support multiple text shadows
        this.renderer.fontShadow(shadows[0].color, shadows[0].offsetX, shadows[0].offsetY, shadows[0].blur);
    } else {
        this.renderer.clearShadow();
    }
    this.renderer.clip(container.parent.clip, function() {
        textList.map(this.parseTextBounds(container), this).forEach(function(bounds, index) {
            if (bounds) {
                this.renderer.text(textList[index], bounds.left, bounds.bottom);
                this.renderTextDecoration(container.parent, bounds, this.fontMetrics.getMetrics(family, size));
            }
        }, this);
    }, this);
    this.renderer.textTransformOptions = {
        textTransform: container.parent.css('textTransform').split(' ')
    };
}

var borderColorTransforms = {
    inset: [
        ['darken', 0.60],
        ['darken', 0.10],
        ['darken', 0.10],
        ['darken', 0.60]
    ];

NodeParser.prototype.parseBorders = function(container) {
    var nodeBounds = container.parseBounds();
    var radius = getBorderRadiusData(container);
    var borders = ['Top', 'Right', 'Bottom', 'Left'].map(function(side, index) {
        var style = container.css('border' + side + 'Style');
        var color = container.color('border' + side + 'Color');
        if (style === 'inset' && color.isBlack()) {
            color = new Color([255, 255, 255, color.a]); // this is wrong, but
        }
        var colorTransform = borderColorTransforms[style] ? borderColorTransforms[style][index] : null;
        return {
            width: container.cssInt('border' + side + 'Width'),
            color: colorTransform || color, // color transform
            args: null
        };
    }, this);
    var borderColorTransforms = {inset: [""darken", 0.60], ""darken", 0.10], ""darken", 0.10], ""darken", 0.60]};
    return {
        clip: this.parseBackgroundClip(container, borders, nodeBounds, radius, nodeBounds),
        borders: calculateBorders(borders, nodeBounds, borderPoints, radius)
    };
}

function calculateBorders(borders, nodeBounds, borderPoints, radius) {
    return borders.map(function(border, index) {
        if (border.width > 0) {
            var bx = nodeBounds.left;
            var by = nodeBounds.top;
            var bw = nodeBounds.width;
            var bh = nodeBounds.height - (borders[2].width);
            switch(borderSide) {
                case 0:
                    // top border
                    break;
                case 1:
                    // right
                    break;
                case 2:
                    // bottom
                    break;
                case 3:
                    // left
                    break;
            }
        }
    });
}
null
borderPoints.topLeftOuter, borderPoints.topLeftInner, borderPoints.topRightOuter, borderPoints.topRightInner,
borderPoints.bottomLeftOuter, borderPoints.bottomLeftInner, borderPoints.bottomRightOuter, borderPoints.bottomRightInner);
break;
}

NodeParser.prototype.parseBackgroundClip = function(container, borderPoints, borders, radius, bounds) {
  var backgroundClip = container.css('backgroundClip'),
      borderArgs = [];

  switch(backgroundClip)
  {
    case "content-box":
    case "padding-box":
        parseCorner(borderArgs, radius[0], radius[1],
        borderPoints.topLeftOuter, borderPoints.topLeftInner, borderPoints.topRightOuter, borderPoints.topRightInner,
        borderPoints.bottomLeftOuter, borderPoints.bottomLeftInner, borderPoints.bottomRightOuter, borderPoints.bottomRightInner);
        break;

    default:
        break;
  }

  return border;}

function getCurvePoints(x, y, r1, r2) {
  var kappa = 4 * ((Math.sqrt(2) - 1) / 3);
  var ox = (r1) * kappa, // control point offset horizontal
          oy = (r2) * kappa, // control point offset vertical
          xm = x + r1, // x-middle
          ym = y + r2; // y-middle
  return [{
    topLeft: bezierCurve({x: x, y: ym}, {x: x, y: ym - oy}, {x: xm - ox, y: y}),
    topRight: bezierCurve({x: x, y: y}, {x: x + ox, y: y}, {x: xm, y: ym - oy}, {x: xm, y: ym})},
    bottomLeft: bezierCurve({x: xm, y: ym}, {x: xm - ox, y: ym}, {x: x, y: y + oy}, {x: x, y: y}),
    bottomRight: bezierCurve({x: xm, y: y}, {x: xm, y: ym}, {x: x, y: ym}, {x: x, y: ym})];
}

function calculateCurvePoints(bounds, borderRadius, borders) {
  var x = bounds.left, y = bounds.top, width = bounds.width, height = bounds.height,
      tlh = borderRadius[0][0], trh = borderRadius[1][1], lbr = borderRadius[0][1], tbr = borderRadius[1][0],
      width = bounds.width, height = bounds.height,
      x0 = x + tlh, y0 = y + tbr, x1 = x + trh, y1 = y + tbr,
      x2 = x + trh, y2 = y + lbr, x3 = x + tlh,
      y3 = y + lbr, x4 = x + tlh, y4 = y + lbr,
      x5 = x + trh, y5 = y + lbr, x6 = x + trh, y6 = y + lbr,
      x7 = x + tlh, y7 = y + lbr, x8 = x + tlh,
      y8 = y + lbr, x9 = x + tlh, y9 = y + lbr,
      x10 = x + trh, y10 = y + lbr, x11 = x + trh,
      y11 = y + lbr, x12 = x + tlh, y12 = y + lbr,
      x13 = x + trh, y13 = y + lbr, x14 = x + trh,
      y14 = y + lbr, x15 = x + tlh, y15 = y + lbr,
      x16 = x + trh, y16 = y + lbr, x17 = x + trh,
      y17 = y + lbr, x18 = x + tlh, y18 = y + lbr,
      x19 = x + trh, y19 = y + lbr, x20 = x + trh,
      y20 = y + lbr, x21 = x + tlh, y21 = y + lbr,
      x22 = x + trh, y22 = y + lbr, x23 = x + trh,
      y23 = y + lbr, x24 = x + tlh, y24 = y + lbr,
      x25 = x + trh, y25 = y + lbr, x26 = x + trh,
      y26 = y + lbr, x27 = x + tlh, y27 = y + lbr,
      x28 = x + trh, y28 = y + lbr, x29 = x + trh,
      y29 = y + lbr, x30 = x + tlh, y30 = y + lbr,
      x31 = x + trh, y31 = y + lbr, x32 = x + trh,
      y32 = y + lbr, x33 = x + tlh, y33 = y + lbr,
      x34 = x + trh, y34 = y + lbr, x35 = x + trh,
      y35 = y + lbr, x36 = x + tlh, y36 = y + lbr,
      x37 = x + trh, y37 = y + lbr, x38 = x + trh,
      y38 = y + lbr, x39 = x + tlh, y39 = y + lbr,
      x40 = x + trh, y40 = y + lbr, x41 = x + trh,
      y41 = y + lbr, x42 = x + tlh, y42 = y + lbr,
      x43 = x + trh, y43 = y + lbr, x44 = x + trh,
      y44 = y + lbr, x45 = x + tlh, y45 = y + lbr,
      x46 = x + trh, y46 = y + lbr, x47 = x + trh,
      y47 = y + lbr, x48 = x + tlh, y48 = y + lbr,
      x49 = x + trh, y49 = y + lbr, x50 = x + trh,
      y49 = y + lbr, x51 = x + tlh, y51 = y + lbr,
      x52 = x + trh, y52 = y + lbr, x53 = x + trh,
      y53 = y + lbr, x54 = x + tlh, y54 = y + lbr,
      x55 = x + trh, y55 = y + lbr, x56 = x + trh,
      y56 = y + lbr, x57 = x + tlh, y57 = y + lbr,
      x58 = x + trh, y58 = y + lbr, x59 = x + trh,
      y59 = y + lbr, x60 = x + tlh, y60 = y + lbr,
      x61 = x + trh, y61 = y + lbr, x62 = x + trh,
      y62 = y + lbr, x63 = x + tlh, y63 = y + lbr,
      x64 = x + trh, y64 = y + lbr, x65 = x + trh,
      y65 = y + lbr, x66 = x + tlh, y66 = y + lbr,
      x67 = x + trh, y67 = y + lbr, x68 = x + trh,
      y68 = y + lbr, x69 = x + tlh, y69 = y + lbr,
      x70 = x + trh, y70 = y + lbr, x71 = x + trh,
      y71 = y + lbr, x72 = x + tlh, y72 = y + lbr,
```javascript
var topWidth = width - trh,
rightHeight = height - brv,
bottomWidth = width - brh,
leftHeight = height - blv;

function bezierCurve(start, startControl, endControl, end) {
    var lerp = function (a, b, t) {
        return {
            x: a.x + (b.x - a.x) * t,
            y: a.y + (b.y - a.y) * t
        };
    }

    return {
        start: start,
        startControl: startControl,
        endControl: endControl,
        end: end,
        subdivide: function(t) {
            var ab = lerp(start, startControl, t),
                bc = lerp(startControl, endControl, t),
                cd = lerp(endControl, end, t),
                abbc = lerp(ab, bc, abbc, dest),
                bccd = lerp(bc, cd, bccd, dest),
                dest = lerp(abbc, bccd, dest);
            return [bezierCurve(start, ab, abbc, dest), bezierCurve(dest, bccd, bccd, end)];
        },
        curveTo: function(borderArgs) {
            borderArgs.push(['bezierCurve', startControl.x, startControl.y, endControl.x, endControl.y, end.x, end.y]);
        },
        curveToReversed: function(borderArgs) {
            borderArgs.push(['bezierCurve', startControl.x, startControl.y, endControl.x, endControl.y, start.x, start.y]);
        }
    };
}

function drawSide(borderData, radius1, radius2, outer1, inner1, outer2, inner2) {
    var borderArgs = [];

    if (radius1[0] > 0 || radius1[1] > 0) {
        borderArgs.push(['line', outer1[1].start.x, outer1[1].start.y]);
        outer1[1].curveTo(borderArgs);
    } else {
        borderArgs.push(['line', borderData.c1[0], borderData.c1[1]]);
    }

    if (radius2[0] > 0 || radius2[1] > 0) {
        borderArgs.push(['line', outer2[0].start.x, outer2[0].start.y]);
    } else {
        borderArgs.push(['line', borderData.c2[0], borderData.c2[1]]);
    }

    return borderArgs;
}

function parseCorner(borderArgs, radius1, radius2, corner1, corner2, x, y) {
    if (radius1[0] > 0 || radius1[1] > 0) {
        borderArgs.push(['line', corner1[0].start.x, corner1[0].start.y]);
    } else {
        borderArgs.push(['line', x, y]);
    }

    if (radius2[0] > 0 || radius2[1] > 0) {
        borderArgs.push(['line', corner2[0].start.x, corner2[0].start.y]);
    }

    return borderArgs;
}

function renderableNode(node) {
    return (node.nodeType === Node.TEXT_NODE || node.nodeType === Node.ELEMENT_NODE);
}

function isPositionedForStacking(container) {
    var position =
````
this.renderBackgroundImage(container, bounds, borderData);

Renderer.prototype.renderBackgroundColor = function(container, bounds) {
    var color = container.color("backgroundColor");
    if (!color.isTransparent()) {
        this.rectangle(bounds.left, bounds.top, bounds.width, bounds.height, color);
    }
};

Renderer.prototype.renderBorders = function(borders) {
    borders.forEach(this.renderBorder, this);
}

Renderer.prototype.renderBorder = function(data) {
    if (!data.color.isTransparent() && data.args !== null) {
        this.drawShape(data.args, data.color);
    }
}

Renderer.prototype.renderBackgroundImage = function(container, bounds, borderData) {
    var backgroundImages = container.parseBackgroundImages();
    backgroundImages.reverse().forEach(function(backgroundImage, index, arr) {
        switch(backgroundImage.method) {
            case "url":
                var image = this.images.get(backgroundImage.args[0]);
                if (image) {
                    this.renderBackgroundRepeating(container, bounds, image, arr.length - (index + 1), borderData);
                } else {
                    log("Error loading background-image", backgroundImage.args[0]);
                    break;
                }
            case "linear-gradient":
            case "gradient":
                var gradientImage = this.images.get(backgroundImage.value);
                if (gradientImage) {
                    this.renderBackgroundGradient(gradientImage, bounds, borderData);
                } else {
                    log("Error loading background-image", backgroundImage.args[0]);
                    break;
                }
            case "none":
                break;
            default:
                log("Unknown background-image type", backgroundImage.args[0]);
        }
    }, this);
};

module.exports = Renderer;

CanvasRenderer(width, height) {
    Renderer.apply(this, arguments);
    this.canvas = this.options.canvas || this.document.createElement("canvas");
    if (!this.options.canvas) {
        this.canvas.width = width;
        this.canvas.height = height;
    }
    this.ctx = this.canvas.getContext("2d");
    this.taintCtx = this.document.createElement("canvas").getContext("2d");
    this.ctx.textBaseline = "bottom";
    this.variables = {};
}

CanvasRenderer.prototype.setFillStyle = function(fillStyle) {
    this.ctx.fillStyle = typeof(fillStyle) === "object" && !!fillStyle.isColor ? fillStyle.toString() : fillStyle;
    return this.ctx;
}

CanvasRenderer.prototype.rectangle = function(left, top, width, height, color) {
    this.setFillStyle(color).fillRect(left, top, width, height);
}

CanvasRenderer.prototype.circle = function(left, top, size, color) {
    this.setFillStyle(color);
    this.ctx.beginPath();
    this.ctx.arc(left + size / 2, top + size / 2, size / 2, 0, Math.PI*2, true);
    this.ctx.closePath();
    this.ctx.fill();
}

CanvasRenderer.prototype.circleStroke = function(left, top, size, color, stroke, strokeColor) {
    this.circle(left, top, size, color);
    this.ctx.strokeStyle = strokeColor.toString();
    this.ctx.stroke();
}

CanvasRenderer.prototype.drawShape = function(shape, color) {
    this.shape(shape);
    this.setFillStyle(color).fill();
}

CanvasRenderer.prototype.taints = function(imageContainer) {
    if (imageContainer.tainted !== null) {
        return true;
    }
    return this
}
this.taintCtx.drawImage(imageContainer.image, 0, 0); try { 
        this.taintCtx.getImageData(0, 0, 1, 1); 
        if (this.taints(imageContainer)) { 
            this.options.allowTaint = true; 
        } 
    } finally { 
        this.taintCtx = document.createElement("canvas").getContext("2d"); 
        document.body.appendChild(this.taintCtx); 
    }

CanvasRenderer.prototype.clip = function(shapes, callback, context) { 
    var ctx = context || this.taintCtx; 
    var restore = ctx.save(); 
    shapes.filter(hasEntries).forEach(function(shape) { 
        this.shape(shape).clip(); 
    }, this); 
    callback.call(context, {}); 
    ctx.restore(); 
};

CanvasRenderer.prototype.shape = function(shape) { 
    this.ctx.beginPath(); 
    shape.forEach(function(point, index) { 
        if (point[0] === "rect") { 
            this.ctx.rect.apply(this.ctx, point.slice(1)); 
        } else { 
            this.ctx[(index === 0) ? "moveTo" : point[0] + "To"](this.ctx, point.slice(1)); 
        }
    }, this); 
    this.ctx.closePath(); 
    return this.ctx; 
};

CanvasRenderer.prototype.font = function(color, style, variant, weight, size, family) { 
    this.setFillStyle(color).font = [style, variant, weight, size, family].join(" ").split(" ")[0]; 
};

CanvasRenderer.prototype.fontShadow = function(color, offsetX, offsetY, blur) { 
    this.setVariable("shadowColor", color.toString()); 
    this.setVariable("shadowOffsetY", offsetY); 
    this.setVariable("shadowOffsetX", offsetX); 
    this.setVariable("shadowBlur", blur); 
};

CanvasRenderer.prototype.setVariable = function(property, value) { 
    if (this.variables[property] !== value) { 
        this.variables[property] = this.ctx[property] = value; 
    }

    return this;
};

CanvasRenderer.prototype.text = function(text, left, bottom) { 
    this.ctx.fillText(text, left, bottom);
};

CanvasRenderer.prototype.clip = function(shapes, callback, context) { 
    var ctx = context || this.taintCtx; 
    var restore = ctx.save(); 
    shapes.filter(hasEntries).forEach(function(shape) { 
        this.shape(shape).clip(); 
    }, this); 
    callback.call(context, {}); 
    ctx.restore(); 
};

CanvasRenderer.prototype.shape = function(shape) { 
    this.ctx.beginPath(); 
    shape.forEach(function(point, index) { 
        if (point[0] === "rect") { 
            this.ctx.rect.apply(this.ctx, point.slice(1)); 
        } else { 
            this.ctx[(index === 0) ? "moveTo" : point[0] + "To"](this.ctx, point.slice(1)); 
        }
    }, this); 
    this.ctx.closePath(); 
    return this.ctx; 
};

CanvasRenderer.prototype.font = function(color, style, variant, weight, size, family) { 
    this.setFillStyle(color).font = [style, variant, weight, size, family].join(" ").split(" ")[0]; 
};

CanvasRenderer.prototype.fontShadow = function(color, offsetX, offsetY, blur) { 
    this.setVariable("shadowColor", color.toString()); 
    this.setVariable("shadowOffsetY", offsetY); 
    this.setVariable("shadowOffsetX", offsetX); 
    this.setVariable("shadowBlur", blur); 
};

CanvasRenderer.prototype.setVariable = function(property, value) { 
    if (this.variables[property] !== value) { 
        this.variables[property] = this.ctx[property] = value; 
    }

    return this;
};

CanvasRenderer.prototype.text = function(text, left, bottom) { 
    this.ctx.fillText(text, left, bottom); 
};
e,exports){
var NodeContainer = _dereq_('./nodecontainer');

function StackingContext(hasOwnStacking, opacity, element, parent) {
    NodeContainer.call(this, element, parent);
    this.ownStacking = hasOwnStacking;
    this.contexts = [];
    this.children = [];
    this.opacity = (this.parent ? this.parent.stack.opacity : 1) * opacity;
}

StackingContext.prototype = Object.create(NodeContainer.prototype);

StackingContext.prototype.getParentStack = function(context) {
    var parentStack = (this.parent) ? this.parent.stack : null;
    return parentStack ? (parentStack.ownStacking ? parentStack : parentStack.getParentStack(context)) : context.stack;
};

module.exports = StackingContext;

},{"./nodecontainer":14}

function Support(document) {
    this.rangeBounds = this.testRangeBounds(document);
    this.cors = this.testCORS();
    this.svg = this.testSVG();
}

Support.prototype.testRangeBounds = function(document) {
    var range, testElement, rangeBounds, rangeHeight, support = false;
    if (document.createRange) {
        range = document.createRange();
        if (range.getBoundingClientRect) {
            testElement = document.createElement('boundtest');
            testElement.style.height = "123px";
            testElement.style.display = "block";
            document.body.appendChild(testElement);

            range.selectNode(testElement);
            rangeBounds = range.getBoundingClientRect();
            rangeHeight = rangeBounds.height;

            if (rangeHeight === 123) {
                support = true;
            }
            document.body.removeChild(testElement);
        }
    }

    return support;
};

Support.prototype.testCORS = function() {
    return typeof((new Image()).crossOrigin) !== "undefined";
};

Support.prototype.testSVG = function() {
    var img = new Image();
    var canvas = document.createElement("canvas");
    var ctx = canvas.getContext("2d");
    img.src = "data:image/svg+xml,<svg xmlns='http://www.w3.org/2000/svg'></svg>";

    try {
        ctx.drawImage(img, 0, 0);
        canvas.toDataURL();
    } catch(e) {
        return false;
    }
    return true;
};

module.exports = Support;

},{}

function SVGContainer(src) {
    this.src = src;
    this.image = null;
    var self = this;

    this.promise = this.hasFabric().then(function() {
        return (self.isInline(src) ? Promise.resolve(self.inlineFormatting(src)) : XHR(src));
    }).then(function(svg) {
        return new Promise(function(resolve) {
            window.html2canvas.svg.fabric.loadSVGFromString(svg, self.createCanvas.call(self, resolve));
        });
    });
}

SVGContainer.prototype.hasFabric = function() {
    return !window.html2canvas.svg || !window.html2canvas.svg.fabric ? Promise.reject(new Error("html2canvas.svg.js is not loaded, cannot render svg")) : Promise.resolve();
};

SVGContainer.prototype.inlineFormatting = function(src) {
    return (/^data:image/svg+xml;base64,/.test(src)) ? this.decode64(this.removeContentType(src)) : this.removeContentType(src);
};

SVGContainer.prototype.removeContentType = function(src) {
    return src.replace(/^data:image/svg+xml(;base64)?,/,'');
};

SVGContainer.prototype.isInline = function(src) {
    return (/^data:image/svg/i.test(src));
};

SVGContainer.prototype.createCanvas = function(resolve) {
    var self = this;
    return function (objects, options) {
        var canvas = new window.html2canvas.svg.fabric.StaticCanvas('c');
        self.image = canvas.lowerCanvasEl;
        canvas
            .setWidth(options.width)
            .setHeight(options.height)
            .add(window.html2canvas.svg.fabric.util.groupSVGElements(objects, options));
        resolve(canvas);
    };
};

SVGContainer.prototype.decode64 = function(str) {
    return (typeof(window.atob) === "function") ? window.atob(str) : decode64(str);
};

module.exports = SVGContainer;

},{"./utils":26,"./xhr":28}

function SVGNodeContainer(node, _native) {
    this.src = node;
    this.image = null;
    var self = this;

    this.promise = _native ? new Promise(function(resolve, reject) {
        self.image = new Image();
        self.image.onload = resolve;
        self.image.onerror = reject;
        self.image.src = "data:image/svg+xml," + (new XMLSerializer()).serializeToString(node);
        if (self.image.complete === true) {
            resolve(self.image);
        }
    }) : this.hasFabric().then(function() {
        return new Promise(function(resolve) {
            window.html2canvas.svg.fabric.parseSVGDocument(node,
                this.decode64(this.removeContentType(node)), 
                , new XMLSerializer(), resolve)
        });
    });
}

SVGNodeContainer.prototype.hasFabric = function() { // return !window.html2canvas.svg || !window.html2canvas.svg.fabric ? Promise.reject(new Error("html2canvas.svg.js is not loaded, cannot render svg")) : Promise.resolve();
    var XHR = _dereq_('/xhr');
    var decode64 = _dereq_('/utils').decode64;
    var decode64 = _dereq_('/utils').decode64;
    return XHR.
        function(resolve) {
            window.html2canvas.svg.fabric.loadSVGFromString(svg, self.createCanvas.call(self, resolve));
        });
}

SVGNodeContainer.prototype.removeContentType = function(src) {
    return src.replace(/^data:image/svg+xml(;base64)?,/,'');
};

SVGNodeContainer.prototype.isInline = function(src) {
    return (/^data:image/svg/i.test(src));
};

SVGNodeContainer.prototype.createCanvas = function(resolve) {
    var self = this;
    return function (objects, options) {
        var canvas = new window.html2canvas.svg.fabric.StaticCanvas('c');
        self.image = canvas.lowerCanvasEl;
        canvas
            .setWidth(options.width)
            .setHeight(options.height)
            .add(window.html2canvas.svg.fabric.util.groupSVGElements(objects, options));
        resolve(canvas);
    };
};

SVGNodeContainer.prototype.decode64 = function(str) {
    return (typeof(window.atob) === "function") ? window.atob(str) : decode64(str);
};

module.exports = SVGNodeContainer;
self.createCanvas.call(self, resolve));

SVGNodeContainer.prototype =
Object.create(SVGContainer.prototype);

module.exports =
SVGNodeContainer;

function TextContainer(node, parent) {
    NodeContainer.call(this, node, parent);
}

TextContainer.prototype =
Object.create(NodeContainer.prototype);

exports.exports =
function smallImage() {
    return "data:image/gif;base64,R0lGODlhAQABAIAAAAAAAP///yH5BAEAAAAALAAAAAABAAEAAAIBRAA7";
}

exports.bind = function(callback, context) {
    return function() {
        return callback.apply(context, arguments);
    };
}

exports.decode64 =
function(base64) {
    var chars = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/";
    var len = base64.length, i, encoded1, encoded2, encoded3, encoded4, byte1, byte2, byte3;

    var output = "";

    for (i = 0; i < len; i += 4) {
        encoded1 = chars.indexOf(base64[i]);
        encoded2 = chars.indexOf(base64[i+1]);
        encoded3 = chars.indexOf(base64[i+2]);
        encoded4 = chars.indexOf(base64[i+3]);

        byte1 = (encoded1 << 2) | (encoded2 >> 4);
        byte2 = ((encoded2 & 15) << 4) | (encoded3 >> 2);
        byte3 = ((encoded3 & 3) << 6) | encoded4;
        if (encoded3 === 64) {
            output += String.fromCharCode(byte1);
        } else if (encoded4 === 64 || encoded4 === -1) {
            output += String.fromCharCode(byte1, byte2);
        } else {
            output += String.fromCharCode(byte1, byte2, byte3);
        }
    }

    return output;
}

exports.getBounds = function(node) {
    if (node.getBoundingClientRect) {
        var clientRect = node.getBoundingClientRect();
        var width = node.offsetWidth == null ? clientRect.width : node.offsetWidth;
        return {
            top: clientRect.top,
            bottom: clientRect.bottom || (clientRect.top + clientRect.height),
            right: clientRect.left + width,
            left: clientRect.left,
            width: width,
            height: node.offsetHeight == null ? clientRect.height : node.offsetHeight
        };
    }
    return {};
}

exports.getOffset = function(node) {
    if (node) {
        return {
            top: node.offsetTop,
            bottom: node.offsetTop + node.offsetHeight
        };
    }
    return {};
}

exports.parseBackgrounds = function(backgroundImage) {
    var whitespace = ' 
	', method, definition, prefix, prefix_i, block, results = [],
    mode = 0, numParen = 0, quote, args;

    var appendResult = function() {
        if (method) {
            if (definition.substr(0, 1) === '"') {
                definition = definition.substr(1, definition.length - 2);
            }
            if (definition) {
                args.push(definition);
            }
            if (method.substr(0, 1) === '-') {
                prefix = method.substr(1);
                method = method.substr(2);
            }
        }
        args = [];
        method = definition = prefix = block = results = [];
        numParen = 0, quote, args;
    }
    args = [];
    method = definition = prefix = block = results = [];

    backgroundImage.split(whitespace).forEach(function(c) {
        if (mode === 0 && whitespace.indexOf(c) > -1) {
            return;
        }
        switch(c) {
        case '"':
            if (!quote) {
                quote = c;
            } else if (quote === c) {
                quote = null;
            } break;
        case '\':
            if (quote) {
                quote = c;
            } else if (mode === 0) {
                mode = 1;
            } break;
        }
    });

    return;
}
numParen++;
            } else if (mode === 0) {
                block += c;
            }
            appendResult();
            return;
        }
        break;
    case ')':
        if (quote) {
            break;
        } else if (mode === 1) {
            if (numParen === 0) {
                mode = 0;
                block += c;
                block += c;
            } else if (numParen > 0) {
                numParen--;
            }
            break;
        }
        break;
    case ',':
        if (quote) {
            break;
        } else if (mode === 0) {
            appendResult();
            return;
        } else if (mode === 1) {
            if (numParen === 0 && !method.match(/url$/i)) {
                results.push(definition);
                definition = '';
                block += c;
                return;
            }
        }
        break;

    block += c;
    if (mode === 0) {
        method += c;
    } else {
        definition += c;
    }
});

appendResult();
return results;
}

},{}
], 27: [function (_dereq_, module, exports) {
var GradientContainer = _dereq_('./gradientcontainer');

function WebkitGradientContainer(imageData) {
    GradientContainer.apply(this, arguments);
    this.type = imageData.args[0] === "linear" ? GradientContainer.TYPES.LINEAR : GradientContainer.TYPES.RADIAL;
}

WebkitGradientContainer.prototype = Object.create(GradientContainer.prototype);

module.exports = WebkitGradientContainer;

}, ["./gradientcontainer": 9}], 28: [function (_dereq_, module, exports) {
function XHR(url) {
    return new Promise(function (resolve, reject) {
        var xhr = new XMLHttpRequest();
        xhr.open('GET', url);
        xhr.onload = function () {
            if (xhr.status === 200) {
                resolve(xhr.responseText);
            } else {
                reject(new Error(xhr.statusText));
            }
        };
        xhr.onerror = function () {
            reject(new Error('Network Error'));
        };
        xhr.send();
    });
}

module.exports = XHR;

}, {}], 4: (4) => {
});

/*****************
** WEBPACK FOOTER
** ./~/html2canvas/dist/html2canvas.js
** module id = 45
** module chunks = 0
**/
```javascript
this._progressbar.setAttribute('aria-valuenow', String(x));
this._progressbar.style.width = String(x * 100.0) + '%';

return this._waitForUpdate();
}

module.exports = {

ProgressModal: ProgressModal
};


/*****************
 ** WEBPACK FOOTER
 ** ./src/progressbar.js
 ** module id = 46
 ** module chunks = 0
 **/
WidgetArea = function(cell) {
    this.widget_views = [];
    this._cell = cell;
    this._widgets_live = true;
    this.disposed = false;

    this._create_elements();
    this._bind_events();
    requirejs(['base/js/events'], function(events) {
        events.trigger('create.WidgetArea', {widgetarea: this, cell: cell});
    }).bind(this);

    var that = this;
    var died = function() {
        that._widget_dead();
    }

    this._cell.notebook.events.on('kernel_disconnected.Kernel', died);
    this._cell.notebook.events.on('kernel_killed.Kernel', died);
    this._cell.notebook.events.on('kernel_restarting.Kernel', died);
    this._cell.notebook.events.on('kernel_dead.Kernel', died);

    var dummy = $('<div/>').append(dummy_el);
    this.widget_area.show();
    this.widget_subarea.html('');
    this._clear();
}

/**
 * Disposes of the widget area and its widgets.
 */
WidgetArea.prototype.dispose = function() {
    this._cell.notebook.events.off('kernel_disconnected.Kernel');
    this._cell.notebook.events.off('kernel_killed.Kernel');
    this._cell.notebook.events.off('kernel_restarting.Kernel');
    this._cell.notebook.events.off('kernel_dead.Kernel');
    this._clear();
    this.disposed = true;
}

/**
 * Creates the elements of the widget area and appends them
 * to the associated cell.
 */
WidgetArea.prototype._create_elements = function() {
    var widget_area = $('<div/>')
        .addClass('widget-area')
        .hide();
    this.widget_area = widget_area;
    var widget_prompt = $('<div/>')
        .addClass('prompt')
        .appendTo(widget_area);
    var widget_subarea = $('<div/>')
        .addClass('widget-subarea')
        .appendTo(widget_area);
    this.widget_subarea = widget_subarea;
    var that = this;
    var widget_clear_button = $('<button />')
        .addClass('close')
        .html('&times;')
        .click(function() {
            widget_area.slideUp('', function() {
                for (var i = 0; i < that.widget_views.length; i++) {
                    var view = that.widget_views[i];
                    view.remove();
                }
                that.widget_views = [];
                that.widget_subarea.html('');
            });
        })
        .appendTo(widget_prompt);

    if (this._cell.input) {
        this._cell.input.after(widget_area);
    } else {
        throw new Error('Cell does not have an `input` element.  Is it not a CodeCell?');
    }
}

/**
 * Listens to
 * events of the cell.
 */
WidgetArea.prototype._bind_events = function() {
    requirejs(['base/js/events'], function(events) {
        events.on('execute.CodeCell', function(event, data) {
            if (data.cell === this._cell) {
                this._clear();
            }
        }).bind(this);
    }).bind(this);
}

/**
 * Handles when a widget
 * loses it's comm connection.
 * @param {WidgetView} view
 */
WidgetArea.prototype._widget_dead = function() {
    if (this._widgets_live) {
        this._widgets_live = false;
        this.widget_subarea.html('');
    }

    // Clear the live state of the view's model
    if (view.model.comm_live) {
        this._widget_live(view);
    } else {
        this._widget_dead(view);
    }
}

WidgetArea.prototype.display_widget_view = function(view_promise) {
    // Display a dummy element
    var dummy = $('<div/>');
    this.widget_subarea.append(dummy);

    // Display the view.
    dummy.replaceWith(view_el);
    this.widget_views.push(view);

    // Check the live state of the view's model
    if (view.model.comm_live) {
        this._widget_live(view);
    } else {
        this._widget_dead(view);
    }

    // If the view is removed, check to see if the widget area is empty.
    if (this.widget_area.is(':empty')) {
        this._clear();
    }

    // If the widget area is empty, close it.
    view.on('remove', function() {
        this.widget_area.hide();
    });

    // Check that the other widgets are live too.  O(N) operation.
    // Abort the function at the first dead widget found.
    for (var i = 0; i < this.widget_views.length; i++) {
        if (!this.widget_views[i].model.comm_live) {
            return;
        }
    }

    this.widget_area.show();
    this.widget_subarea.html('');
    this._clear();
};

module.exports = {
    WidgetArea: WidgetArea
};

/*****************
 ** WEBPACK FOOTER
 ** module id = 50
 ** module chunks = 0
 **/
coupled to the notebook because of the outputarea
// dependency.

```javascript
var widgets = require("jupyter-js-widgets");

var $ = require("jquery");
var _ = require("underscore");

var OutputModel = widgets.DOMWidgetModel.extend({
    defaults: _.extend({}, widgets.DOMWidgetModel.prototype.defaults, {
        _model_name: "OutputModel",
        _view_name: "OutputView"
    }),
});

var OutputView = widgets.DOMWidgetView.extend({

    initialize: function (parameters) {
        this.$el = 
            // TODO: Use jupyter-js-output-area
        requirejs(["notebook/js/outputarea"], (function(outputarea) {
            this.output_area = new outputarea.OutputArea({
                selector: this.$el,
                prompt_area: false,
                events: this.model.widget_manager.notebook.events,
            });

            // Make output area reactive.
            var that = this;
            this.output_area.element.on('changed', function() {
                that.model.set('contents', that.output_area.element.html());
            });
            this.listenTo(this.model, 'change:contents', function() {
                var html = this.model.get('contents');
                if (this.output_area.element.html() != html) {
                    this.output_area.element.html(html);
                }
            }, this);

            // Set initial contents.
            this.output_area.element.html(this.model.get('contents'));
        }).bind(this));
    },

    /**
     * Handles rerouted iopub messages.
     */
    _handle_route_msg: function(msg) {
        if (msg) {
            var msg_type = msg.msg_type;
            if (msg_type=='clear_output') {
                this.output_area.handle_clear_output(msg);
            } else {
                this.output_area.handle_output(msg);
            }
        }
    },
});

module.exports = {
    OutputView: OutputView,
    OutputModel: OutputModel,
};
```

**WEBPACK FOOTER**

```javascript
// module.exports = require("./../../css-loader/lib/css-base.js")();
// imports

// module
exports.push([module.id, 
```
```
var styles = listToStyles(list);

addStylesToDom(styles, options);

return function update(newList) {
  var mayRemove = [];
  for (var i = 0; i < styles.length; i++) {
    var item = styles[i];
    var domStyle = stylesInDom[item.id];
    if (mayRemove.push(item) !== 0) { return; }
    for (var j = 0; j < domStyle.parts.length; j++) {
      domStyle.refs--;
      mayRemove.push(domStyle);
    }
    if (newList) {
      var newStyles = listToStyles(newList);
      addStylesToDom(newStyles, options);
    }
    for (var i = 0; i < mayRemove.length; i++) {
      var domStyle = mayRemove[i];
      domStyle.refs == 0) {
        delete stylesInDom[domStyle.id];
        if (options) {
          delete stylesInDom[domStyle.id];
          stylesInDom[domStyle.id] = {id: domStyle.id, refs: 1, parts: []};
        } else {
          if (options) {
            options.insertAt === "top") {
              if (!lastStyleElementInsertedAtTop) {
                head.insertBefore(styleElement, head.firstChild);
              } else if (lastStyleElementInsertedAtTop.nextSibling) {
                head.insertBefore(styleElement, lastStyleElementInsertedAtTop.nextSibling);
              } else {
                head.appendChild(styleElement);
              }
            } else if (options.insertAt === "bottom") {
              head.appendChild(styleElement);
            } else {
              throw new Error("Invalid value for parameter 'insertAt'. Must be 'top' or 'bottom'.");
            }
          } else {
            styleElement = createStyleElement(options);
            update = applyToTag.bind(null, styleElement);
            remove = function() {
              removeStyleElement(styleElement);
              if (styleElement.href) {
                URL.revokeObjectURL(styleElement.href);
              }
            };
          }
        }
      }
      if (newObj && update(newStyle)) {
        updateStyleElement(newObj.css, newObj.media, newObj.sourceMap);
      }
      if (newObj) {
        if (newObj.css === obj.css && newObj.media === obj.media && newObj.sourceMap === obj.sourceMap) {
          return;
        }
        updateStyleElement(obj.css, obj.media, obj.sourceMap) = function()
      } else {
        updateStyleElement(obj.css, obj.media, obj.sourceMap) = function()
      }
    }
  }
};

function insertStyleElement(options, styleElement) {
  var head = getHeadElement();
  var lastStyleElementInsertedAtTop = styleElementsInsertedAtTop[styleElementsInsertedAtTop.length - 1];
  if (options.insertAt === "top") {
    if (!lastStyleElementInsertedAtTop) {
      head.insertBefore(styleElement, head.firstChild);
    } else if (lastStyleElementInsertedAtTop.nextSibling) {
      head.insertBefore(styleElement, lastStyleElementInsertedAtTop.nextSibling);
    } else {
      head.appendChild(styleElement);
    }
    styleElementsInsertedAtTop.push(styleElement);
  } else if (options.insertAt === "bottom") {
    head.appendChild(styleElement);
  } else {
    throw new Error("Invalid value for parameter 'insertAt'. Must be 'top' or 'bottom'.");
  }
}

function removeStyleElement(styleElement) {
  styleElement.parentNode.removeChild(styleElement);
  var idx = styleElementsInsertedAtTop.indexOf(styleElement);
  if (idx >= 0) {
    styleElementsInsertedAtTop.splice(idx, 1);
  }
}

function createStyleElement(options) {
  var styleElement = document.createElement("style");
  styleElement.type = "text/css";
  styleElement.styleSheet = insertStyleElement(options, styleElement);
  return createLinkElement(options);
}

function createLinkElement(options) {
  var linkElement = document.createElement("link");
  linkElement.rel = "stylesheet";
  return createLinkElement(options);
}

function addStyle(obj, options) {
  var styleElement, update, remove;
  if (options.singleton) {
    var styleIndex = singletonCounter++;
    var styleElement = singletonElement || (singletonElement = createStyleElement(options));
    update = applyToSingletonTag.bind(null, styleElement, styleIndex, false);
    remove = applyToSingletonTag.bind(null, styleElement, styleIndex, true);
  } else if (obj.sourceMap)
    URL.revokeObjectURL(obj.styleElement.href);
    return createLinkElement(options);
    update = applyToTag.bind(null, styleElement);
    remove = function() {
      removeStyleElement(styleElement);
      if (obj.styleElement.href) {
        URL.revokeObjectURL(obj.styleElement.href);
      } else {
        return createLinkElement(options);
      };
      update = applyToTag.bind(null, styleElement);
      remove = function() {
        removeStyleElement(styleElement);
        return createLinkElement(options);
      };
    } else {
      return createLinkElement(options);
    };
    update = applyToTag.bind(null, styleElement);
    remove = function() {
      removeStyleElement(styleElement);
      return createLinkElement(options);
    };
  } else {
    return createLinkElement(options);
  };
  update = applyToTag.bind(null, styleElement);
  remove = function() {
    removeStyleElement(styleElement);
    return createLinkElement(options);
  };
  return createLinkElement(options);
}
var replaceText = (function () {
    var textStore = [];
    return function (index, replacement) {
        textStore[index] = replacement;
        return textStore.filter(Boolean).join('
');
    };
})();

function applyToSingletonTag(styleElement, index, remove, obj) {
    var css = remove ? '' : obj.css;
    if (styleElement.styleSheet) {
        styleElement.styleSheet.cssText = replaceText(index, css);
    } else {
        var cssNode = document.createTextNode(css);
        if (childNodes[index])
            styleElement.removeChild(childNodes[index]);
        if (childNodes.length)
            styleElement.insertBefore(cssNode, childNodes[index]);
        else
            styleElement.appendChild(cssNode);
    }
}

function applyToTag(styleElement, obj) {
    var css = obj.css;
    if (obj.media) {
        styleElement.setAttribute('media', obj.media);
    }
    if (styleElement.styleSheet) {
        styleElement.styleSheet.cssText = css;
    } else {
        while (styleElement.firstChild)
            styleElement.removeChild(styleElement.firstChild);
        styleElement.appendChild(document.createTextNode(css));
    }
}

function updateLink(linkElement, obj) {
    var css = obj.css;
    var sourceMap = obj.sourceMap;
    if (sourceMap) {
        // http://stackoverflow.com/a/26603875
        css += '
/*# sourceMappingURL=data:application/json;base64,' +
btoa(unescape(encodeURIComponent(JSON.stringify(sourceMap)))) + ' */';
    }
    var blob = new Blob([css], { type: "text/css" });
    var oldSrc = linkElement.href;
    linkElement.href = URL.createObjectURL(blob);
    if (oldSrc)
        URL.revokeObjectURL(oldSrc);
}

/***********
 ** WEBPACK FOOTER
 ** ./~/style-loader/addStyles.js
 ** module id = 55
 ** module chunks = 0
 **/
Usage
=====

Install the corresponding package for your kernel. i.e. Python users would also install `ipywidgets`. Refer to that package's documentation for usage instructions.

Keywords: Interactive, Interpreter, Shell, Web
Platform: Linux
Platform: Mac OS X
Platform: Windows
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Science/Research
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3

Found in path(s):
* /opt/cola/permits/1156186472_1619141886.16/0/widgetsnbextension-1.2.6-tar.gz/widgetsnbextension-1.2.6/widgetsnbextension.egg-info/PKG-INFO
* /opt/cola/permits/1156186472_1619141886.16/0/widgetsnbextension-1.2.6-tar.gz/widgetsnbextension-1.2.6/PKG-INFO

No license file was found, but licenses were detected in source scan.

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* jQuery JavaScript Library v2.2.4
* http://jquery.com/
*
* Includes Sizzle.js
* http://sizzlejs.com/
*
* Copyright jQuery Foundation and other contributors
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*
* Date: 2016-05-20T17:23Z
*/
/*!
* jQuery Color Animations v2.1.2
* https://github.com/jquery/jquery-color
*
* Copyright 2013 jQuery Foundation and other contributors
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* 
* Date: Wed Jan 16 08:47:09 2013 -0600
*/
/* ========================================================================
* Bootstrap: transition.js v3.3.6
* http://getbootstrap.com/javascript/#transitions
* ========================================================================
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* ======================================================================== */
/*
html2canvas 0.5.0-beta4 <http://html2canvas.hertzen.com>
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 */
/*
* base64-arraybuffer
* https://github.com/niklasvh/base64-arraybuffer
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Author Tobias Koppers @sokra
 */

Found in path(s):
* /opt/cola/permits/1156186472_1619141886.16/0/widgetsnbextension-1-2-6-tar-gz/widgetsnbextension-1.2.6/widgetsnbextension/static/extension.js
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1156186472_1619141886.16/0/widgetsnbextension-1-2-6-tar-gz/widgetsnbextension-1.2.6/setup.py

1.1530 libguestfs 1.38.2 12.el7
1.1530.1 Available under license:

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(* virt-sparsify
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*)

(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf
open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline

module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
    format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create
* temporary files (including the potentially massive overlay file), we
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(let output_format =
match convert with
| Some fmt -> fmt
| None ->
match format with
| Some fmt -> fmt
| None ->
(* Don't know, so we must autodetect. *)
match (open_guestfs () #disk_format indisk) with
| "unknown" ->
error (f_"cannot detect input disk format; use the --format parameter")
| fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(let tmp_place =
match tmp_param with
| None -> Directory (Filename.get_temp_dir_name ())
| Some dir when is_directory dir -> Directory dir
| Some dev when is_block_device dev -> Block_device dev
| Some file when String.is_prefix file "prebuilt:" ->
let file = String.sub file 9 (String.length file - 9) in
if not (Sys.file_exists file) then
error (f_"--tmp prebuilt:file: %s: file does not exist") file;
let g = open_guestfs () in
if g #disk_format file <> "qcow2" then
error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
if not (g #disk_has_backing_file file) then
error (f_"--tmp prebuilt:file: %s: file does not have backing file")
file;
Prebuilt_file file
| Some path ->
error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
  | Block_device _
  | Prebuilt_file _ -> ()
  | Directory tmpdir ->
    (* Get virtual size of the input disk. *)
    let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
dump "input disk virtual size is %Ld bytes (%s)"
    virtual_size (human_size virtual_size);

    let print_warning () =
      let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
      let extra_needed = virtual_size -^ free_space in
      if extra_needed > 0L then (
        warning (f_"%
There may not be enough free space on %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s. Free: %s. May need another %s.

Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

%!")
    tmpdir (human_size virtual_size)
    (human_size free_space) (human_size extra_needed);
    true
  ) else false
in

match check_tmpdir with
  | `Ignore -> ()
  | `Continue -> ignore (print_warning ())
  | `Warn ->
    if print_warning () then (
      eprintf "Press RETURN to continue or ^C to quit.
      :%");
      ignore (read_line ());
    );
  | `Fail ->
    if print_warning () then (
      eprintf "Exiting because --check-tmpdir=fail was set.
      :%");
      exit 2
    );

  (* Create the temporary overlay file. *)
let overlaydisk = 
  (match tmp_place with 
   | Directory tmpdir ->
     message (f_"Create overlay file in %s to protect source disk") tmpdir 
   | Block_device device ->
     message (f_"Create overlay device %s to protect source disk") device 
   | Prebuilt_file file ->
     message (f_"Using prebuilt file %s as overlay") file 
  );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
  g#disk_create
  ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one
  in

match tmp_place with 
| Directory temp_dir ->
  let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
  unlink_on_exit tmp;
  create tmp;
  tmp

| Block_device device ->
  create device;
  device

| Prebuilt_file file ->
  (* Don't create anything, use the prebuilt file as overlay. *)
  file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
  g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

  if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g:
  g#launch ()
  g in

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
* and selected swap partitions. *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let filesystems = List.sort compare filesystems in
let filesystems = List.map fst filesystems in
let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_readonly_lv = is_readonly_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (flags <> -1_L && (flags ^ 0x1_L) <> 0_L in
  List.iter (}
fun fs ->
  if not (is_ignored fs) && not (is_read_only_lv fs) then (
    if List.mem fs zeroes then (
      message (f_"Zeroing %s") fs;
      g#zero_device fs
    ) else (
      let mounted =
        try g#mount fs "/"; true
        with _ -> false in
      if mounted then (
        if is_readonly_btrfs_snapshot fs "/") then (      
          info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
        ) else if is_readonly_device "/") then (      
          info (f_"Skipping %s, as it is a read-only device.") fs;
        ) else (      
          message (f_"Fill free space in %s with zero") fs;
          g#zero_free_space "/
        )
      )
    ) else (      
      let is_linux_x86_swap =
        (* Look for the signature for Linux swap on i386.      
          * Location depends on page size, so it definitely won't
          * work on non-x86 architectures (eg. on PPC, page size is
          * 64K). Also this avoids hibernated swap space: in those,
          * the signature is moved to a different location.      
          *)
        try g#pread_device fs 10 4086L = "SWAPSPACE2"
        with _ -> false in
      if is_linux_x86_swap then (      
        message (f_"Clearing Linux swap on %s") fs;
        (* Don't use mkswap. Just preserve the header containing
          * the label, UUID and swap format version (libguestfs
          * mkswap may differ from guest's own).      
          *)
        let header = g#pread_device fs 4096 0L in
        g#zero_device fs;
        if g#pwrite_device fs header 0L <> 4096 then
          error (f_"pwrite: short write restoring swap partition header")
      )
    )
  )

  g#umount_all ()
)
filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (fun vg ->
  if not (List.mem vg ignores) then (let lvname = String.random8 () in
  let lvdev = "/dev/" ^ vg ^ "l" ^ lvname in
  let created = try g#lvcreate_free lvname vg 100; true
  with _ -> false in
  if created then (message (f_"Fill free space in volgroup %s with zero") vg;
    g#zero_device lvdev;
    g#sync ();
    g#lvremove lvdev )
  )
)
)

(* Don’t need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
destination and automatically does sparsification. *)
message ("Copy to destination and make sparse");

let cmd =
sprintf "qemu-img convert -f qcow2 -O %s %s %s %s %s"
  (quote output_format)
  (if compress then " -c" else "")
  (match option with
    | None -> ""
    | Some option -> " -o " ^ quote option)
  (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")

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*)

(** This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string option -> string option -> string list -> unit
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1.1531 slf4j 1.7.16
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
<title>SLF4J License</title>
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
</head>
<body>
<script type="text/javascript">prefix='';</script>
<script src="templates/header.js" type="text/javascript"></script>
<div id="left">
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/client/gridfs/model/GridFSFile.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/client/model/UnwindOptions.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/client/model/TextSearchOptions.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/annotations/ThreadSafe.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/client/model/Sorts.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/client/model/Projections.java

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  jar/com/mongodb/operation/BaseFindAndModifyOperation.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/operation/ChangeStreamBatchCursor.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/operation/CommandListenerMulticaster.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/operation/SplittablePayloadBsonWriter.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/connection/SplittablePayload.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/connection/ElementExtendingBsonWriter.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/event/ServerMonitorListenerAdapter.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/ClusterClockAdvancingSessionContext.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/operation/AsyncChangeStreamBatchCursor.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/client/model/changestream/UpdateDescription.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/operation/ChangeStreamOperation.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/internal/event/ServerListenerMulticaster.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/client/model/changestream/OperationTypeCodec.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/BsonWriterHelper.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/internal/dns/DnsResolver.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/client/model/changestream/OperationType.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/connection/LevelCountingBsonWriter.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/client/model/geojson/codecs/GeometryCodec.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/client/model/changestream/MongoChangeStreamException.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/operation/ReadConcernHelper.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/event/ServerListenerAdapter.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java
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  jar/com/mongodb/connection/SnappyCompressor.java
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  jar/com/mongodb/MongoConfigurationException.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/client/model/CreateViewOptions.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-
  jar/com/mongodb/event/CommandEventMulticaster.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/connection/ClientMetadataHelper.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ConnectionRemovedEvent.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ConnectionCheckedInEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ConnectionClosedEvent.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ConnectionRemovedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ConnectionClosedEvent.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerEventMulticaster.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ConnectionPoolWaitQueueExitedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ConnectionCheckedOutEvent.java

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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerDescriptionChangedEvent.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/event/ServerMonitorListener.java

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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/operation/CreateCollectionOperation.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/operation/RenameCollectionOperation.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/operation/CreateIndexesOperation.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/operation/DropDatabaseOperation.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1-jar/com/mongodb/client/model/GraphLookupOptions.java
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 */

/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque.  (In other words, this method must allocate
 * a new array).  The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 */
* @return an array containing all of the elements in this deque
*/

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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/MongoNotPrimaryException.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/binding/AbstractReferenceCounted.java
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* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/CursorType.java
* /opt/cola/permits/1137987659_1614191217.18/0/mongodb-driver-core-3-6-0-sources-1.jar/com/mongodb/MongoNodeIsRecoveringException.java

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1.1542 chrony 2.1.1 3.el7.centos

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its purpose remains meaningful.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
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Found in path(s):
* /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-
  3.1.0/src/widget_output.css
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Author Tobias Koppers @sokra
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// Digest Algorithm, as defined in RFC 1321.
// Other contributors: Greg Holt, Andrew Kepert, Ydnar, Lostinet
// Distributed under the BSD License
// See http://pajhome.org.uk/crypt/md5 for more info.
*/

// one allocated and free to use, and we maintain at most two
*/!

* jQuery UI Widget 1.12.1
* http://jqueryui.com
*
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*/

// for more details.
/**
* Creates an array of the own enumerable property names of `object`.
* *
* **Note:** Non-object values are coerced to objects. See the
* [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
* for more details.
*
* @static
* @since 0.1.0
* @memberOf _
* @category Object
* @param {Object} object The object to query.
* @returns {Array} Returns the array of property names.
* @example
*
* function Foo() {
*   this.a = 1;
*   this.b = 2;
* }
*
* Foo.prototype.c = 3;
*
* _.keys(new Foo);
* // => ['a', 'b'] (iteration order is not guaranteed)
*
* _.keys('hi');
* // => ['0', '1']
*/

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{};\n\n \t// The require function\n \tfunction __webpack_require__(moduleId) {\n\n \t\t// Check if module is in
cache\n \t\tif(installedModules[moduleId]) {\n \t\t\treturn installedModules[moduleId].exports;\n \t\t}\n \t\t// Create
a new module (and put it into the cache)\n \t\tvar module = installedModules[moduleId] = {\n \t\t\ti: moduleId,\n
\t\t\tl: false,\n \t\t\texports: {}\n \t\t};\n\n \t\t// Execute the module function\n
\t\tmodules[moduleId].call(module.exports, module, module.exports, __webpack_require__);\n\n \t\t// Flag the
module as loaded\n \t\tmodule.l = true;\n\n \t\t// Return the exports of the module\n \t\treturn module.exports;\n
\t}\n\n\n \t// expose the modules object (__webpack_modules__)\n \t__webpack_require__.m = modules;\n\n \t//
expose the module cache\n \t__webpack_require__.c = installedModules;\n\n \t// define getter function for harmony
exports\n \t__webpack_require__.d = function(exports, name, getter) {\n \t\tif(!__webpack_require__.o(exports,
name)) {\n \t\t\tObject.defineProperty(exports, name, {\n \t\t\t\tconfigurable: false,\n \t\t\t\tenumerable: true,\n
\t\t\t\tget: getter\n \t\t\t});\n \t\t}\n \t};\n\n \t// getDefaultExport function for compatibility with non-harmony
modules\n \t__webpack_require__.n = function(module) {\n \t\tvar getter = module && module.__esModule ?\n
\t\t\tfunction getDefault() { return module['default']; } :\n \t\t\tfunction getModuleExports() { return module; };\n
\t\t__webpack_require__.d(getter, 'a', getter);\n \t\treturn getter;\n \t};\n\n \t//
Object.prototype.hasOwnProperty.call\n \t__webpack_require__.o = function(object, property) { return
Object.prototype.hasOwnProperty.call(object, property); };\n\n \t// __webpack_public_path__\n
\t__webpack_require__.p = \"\";\n\n \t// Load entry module and return exports\n \treturn
__webpack_require__(__webpack_require__.s = 143);\n\n\n\n// WEBPACK FOOTER //\n// webpack/bootstrap
3e530044225117619125","if (typeof Object.create === 'function') {\n // implementation from standard node.js 'util'

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module.exports = function inherits(ctor, superCtor) {
    ctor.super_ = superCtor
    ctor.prototype = Object.create(superCtor.prototype, {value: ctor, enumerable: false, writable: true, configurable: true});
}

else {
    // old school shim for old browsers
    module.exports = function inherits(ctor, superCtor) {
        ctor.super_ = superCtor
        var TempCtor = function () {};
        TempCtor.prototype = new TempCtor();
        ctor.prototype.constructor = ctor;
    }
}

module.exports = function Buffer(arg, encodingOrOffset, length) {
    return Buffer(arg, encodingOrOffset, length); // Copy static methods from Buffer
}

function SafeBuffer (arg, encodingOrOffset, length) {
    return Buffer(arg, encodingOrOffset, length);
}

SafeBuffer.from = function (arg, encodingOrOffset, length) {
    if (typeof arg === 'number') {
        throw new TypeError('Argument must not be a number');
    }
    return SafeBuffer(arg, encodingOrOffset, length);
}

SafeBuffer.alloc = function (size, fill, encoding) {
    if (typeof size !== 'number') {
        throw new TypeError('Argument must be a number');
    }
    var buf = Buffer(size);
    if (fill !== undefined) {
        if (typeof encoding === 'string') {
            buf.fill(fill, encoding); 
        } else {
            buf.fill(fill);
        }
    } else {
        buf.fill(0);
    }
    return buf;
}

SafeBuffer.allocUnsafe = function (size) {
    if (typeof size !== 'number') {
        throw new TypeError('Argument must be a number');
    }
    return Buffer(size);
}

SafeBuffer.allocUnsafeSlow = function (size) {
    if (typeof size !== 'number') {
        throw new TypeError('Argument must be a number');
    }
    return buffer.SlowBuffer(size);
}

/*!
 * The buffer module from node.js, for the browser.
 * @author   Feross Aboukhadijeh <feross@feross.org> <http://feross.org>
 * @license  MIT
 */

var base64 = require('base64-js')
var ieee754 = require('ieee754')
var isArray = require('isarray')

exports.Buffer = Buffer
exports.SlowBuffer = SlowBuffer
exports.INSPECT_MAX_BYTES = 50

/**
 * If `Buffer.TYPED_ARRAY_SUPPORT`:
 * ===
 * true    Use Uint8Array implementation (fastest)
 * === false   Use Object implementation (most compatible, even IE6)
 * Browsers that support typed arrays are IE 10+, Firefox 4+, Chrome 7+, Safari 5.1+, Opera 11.6+,
 * iOS 4.2+. Due to various browser bugs, sometimes the Object implementation will be used even
 * when the browser supports typed arrays.
 * We detect these buggy browsers and set `Buffer.TYPED_ARRAY_SUPPORT` to `false` so they
 * get the Object
 * implementation, which is slower but behaves correctly.
 * Detect browser support for typed arrays.
 * Note: Firefox 4-29 lacks support for adding new properties
 * to `Uint8Array` instances.
 * See: https://bugzilla.mozilla.org/show_bug.cgi?id=695438
 * - Chrome 9-10 is missing the `TypedArray.prototype.subarray` function.
 * - IE10 has a broken `TypedArray.prototype.subarray` function which returns arrays of incorrect length in some situations.
 * We detect buggy browsers and set `Buffer.TYPED_ARRAY_SUPPORT` to `false` so they
 * get the Object implementation, which is slower but behaves correctly.
 */

function typedArraySupport () {
    try {
        var arr = new Uint8Array(1)
        arr.__proto__ = {__proto__: Uint8Array.prototype,
                         foo: function () { return 42 } }
        return arr.foo() === 42 && // fast path
               arr.subarray(1, 1).byteLength === 0 && // chrome 9-10 lack `subarray`
               (typeof Uint8Array.prototype.subarray === 'function')
    } catch (e) {
        return false;
    }
}

function createBuffer (that, length) {
    if (kMaxLength() < length) {
        throw new RangeError('Invalid typed array length');
    }
    if (Buffer.TYPED_ARRAY_SUPPORT) {
        // Return an augmented `Uint8Array` instance, for best performance
        var that = new Uint8Array(length);
        that._proto_ = Buffer.prototype;
        that._length = length;
    } else {
        // Fallback: Return an object instance of the Buffer class
        that = new Buffer(length);
    }
    return that;
}

/*
 * Export kMaxLength after typed array support is determined.
 */

function kMaxLength () {
    return Buffer.TYPED_ARRAY_SUPPORT
        ? 0x7fffffff
        : 0x3fffffff
}

/*
 * The Buffer constructor returns instances of `Uint8Array` that have their
 * prototype changed to `Buffer.prototype`. Furthermore, `Buffer`
is a subclass of `Uint8Array`, so the returned instances will have all the node `Buffer` methods *and* the `Uint8Array` methods. Square bracket notation works as expected -- it returns a single octet. *The `Uint8Array` prototype remains unmodified.*

The `Uint8Array` prototype remains unmodified.

```
function Buffer (arg, encodingOrOffset, length) {
  if (!Buffer.TYPED_ARRAY_SUPPORT && !(this instanceof Buffer)) {
    return new Buffer(arg, encodingOrOffset, length)
  }

  // Common case.
  if (typeof arg === 'number') {
    if (typeof encodingOrOffset === 'string') {
      throw new Error('If encoding is specified then the first argument must
    be a string')
    }
    return allocUnsafe(this, arg)
  }
  return from(this, arg, encodingOrOffset, length)
}
```

```
Buffer.poolSize = 8192 // not used by this implementation
```

```
Buffer._augment = function (arr) {
  arr.__proto__ = Buffer.prototype
  return arr
}
```

```
function from (that, value, encodingOrOffset, length) {
  if (typeof value === 'number') {
    throw new TypeError('"value" argument must not be a number')
  }

  if (typeof ArrayBuffer !== 'undefined' && value instanceof ArrayBuffer) {
    return fromArrayBuffer(that, value, encodingOrOffset, length)
  }

  if (typeof value === 'string') {
    return fromString(that, value, encodingOrOffset)
  }

  return fromObject(that, value)
}
```

```
/**
 * Functionally equivalent to Buffer(arg, encoding) but throws a TypeError
 * if value is a number.
 * Buffer.from(str[, encoding])
 * Buffer.from(array)
 * Buffer.from(buffer)
 * Buffer.from(arrayBuffer[, byteOffset[, length]])
 **/
Buffer.from = function (value, encodingOrOffset, length) {
  return from(null, value, encodingOrOffset, length)
}
```

```
if (Buffer.TYPED_ARRAY_SUPPORT) {
  Buffer.prototype.__proto__ = Uint8Array.prototype
  Buffer.__proto__ = Uint8Array
  if (typeof Symbol !== 'undefined' &&
      Buffer[Symbol.species] === Buffer) {
    // Fix subarray() in ES2016.
    See: https://github.com/feross/buffer/pull/97
    Object.defineProperty(Buffer, Symbol.species, {
      value: null,
      configurable: true
    })
  }
}
```

```
function assertSize (size) {
  if (typeof size !== 'number') {
    throw new TypeError('"size" argument must be a number')
  } else if (size < 0) {
    throw new RangeError('"size" argument must not be negative')
  }

  if (size <= 0) {
    return createBuffer(that, size)
  }
  if (fill !== undefined) {
    // Only pay attention to encoding if it's
    // a string. This
    // prevents accidentally sending in a number that wouldn't
    // be interpreted as a start offset.
    return typeof encoding === 'string'
      ? createBuffer(that, size).fill(fill, encoding)
      : createBuffer(that, size).fill(fill)
  }
  return createBuffer(that, size)
}
```

```
/**
 * Creates a new filled Buffer instance.
 * alloc(size[, fill[, encoding]])
 **/
Buffer.alloc = function (size, fill, encoding) {
  return alloc(null, size, fill, encoding)
}
```

```
function allocUnsafe (that, size)
  assertSize(size)
  that = createBuffer(that, size <= 0 ? 0 : checked(size) | 0)
  if (!Buffer.TYPED_ARRAY_SUPPORT) {
    for (var i = 0; i < size; ++i) {
      that[i] = 0
    }
  }
  return that
}
```

```
function fromString (that, string, encoding) {
  if (typeof encoding !== 'string' || encoding === '') {
    encoding = 'utf8'
  }

  if (!Buffer.isEncoding(encoding)) {
    throw new TypeError('"encoding" must be a valid string encoding')
  }

  var length = byteLength(string, encoding) | 0
  that = createBuffer(that, length)

  var actual = that.write(string, encoding)

  if (actual !== length) {
    // Writing a hex string, for example, that contains invalid characters will
    // cause everything after the first invalid
    // character to be ignored. (e.g. '\n' // 'abxxcd' will be treated as 'ab')
    that = that.slice(0, actual)
  }

  return that
}
```

```
function fromArrayLike (that, array) {
  var length = array.length < 0 ? 0 : checked(array.length) | 0
  that = createBuffer(that, size)
  for (var i = 0; i < length; i += 1) {
    that[i] = array[i] & 255
  }
  return that
}
```

```
function fromArrayBuffer (that, array, byteOffset, length) {
  array.byteLength // this throws if `array` is

  if (byteOffset < 0 || array.byteLength < byteOffset) {
    throw new RangeError('"offset" is out of bounds')
  }

  if (array.byteLength < byteOffset + (length || 0)) {
    throw new RangeError('"length" is out of bounds')
  }

  if (byteOffset === undefined & length === undefined) {
    that = new Uint8Array(array)
  } else if (length === undefined) {
    that = new Uint8Array(array, byteOffset)
  } else {
    that = new Uint8Array(array, byteOffset, length)
  }

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    // Return an augmented 'Uint8Array' instance, for best performance
    that = array
  }
```
(loweredCase) throw new TypeError('Unknown encoding: ' + encoding)\n
encoding = (encoding +
'').toLowerCase()\n
loweredCase = true\n }\n }\n}\n\n// The property is used by `Buffer.isBuffer` and `isbuffer` (in Safari 5-7) to detect\n// Buffer instances.\nBuffer.prototype._isBuffer = true\n\nfunction swap (b, n, m)
{\n var i = b[n]\n b[n] = b[m]\n b[m] = i\n}\n\nBuffer.prototype.swap16 = function swap16 () {\n var len =
this.length\n if (len % 2 !== 0) {\n throw new RangeError('Buffer size must be a multiple of 16-bits')\n }\n for
(var i = 0; i < len; i += 2) {\n swap(this, i, i + 1)\n }\n return this\n}\n\nBuffer.prototype.swap32 = function
swap32 () {\n var len = this.length\n if (len % 4 !== 0) {\n throw new RangeError('Buffer size must be a multiple
of 32-bits')\n }\n for (var i = 0; i < len; i += 4) {\n swap(this, i, i + 3)\n swap(this, i + 1, i + 2)\n }\n return
this\n}\n\nBuffer.prototype.swap64 = function swap64 () {\n var len = this.length\n if (len % 8 !== 0) {\n throw
new RangeError('Buffer size must be a multiple of 64-bits')\n }\n for (var i = 0; i < len; i += 8) {\n swap(this, i, i
+ 7)\n swap(this, i + 1, i + 6)\n swap(this, i + 2, i + 5)\n swap(this, i + 3, i + 4)\n }\n return
this\n}\n\nBuffer.prototype.toString = function toString () {\n var length = this.length | 0\n if (length === 0) return
''\n if (arguments.length === 0) return utf8Slice(this, 0, length)\n return slowToString.apply(this,
arguments)\n}\n\nBuffer.prototype.equals = function equals (b) {\n if (!Buffer.isBuffer(b)) throw new
TypeError('Argument must be a Buffer')\n if (this === b) return true\n return Buffer.compare(this, b) ===
0\n}\n\nBuffer.prototype.inspect = function inspect () {\n var str = ''\n var max =
exports.INSPECT_MAX_BYTES\n if (this.length > 0) {\n str = this.toString('hex', 0, max).match(/.{2}/g).join('
')\n if (this.length > max) str += ' ... '\n }\n return '<Buffer ' + str + '>'\n}\n\nBuffer.prototype.compare = function
compare (target, start, end, thisStart, thisEnd) {\n if (!Buffer.isBuffer(target)) {\n throw new
TypeError('Argument must be a Buffer')\n }\n\n if (start === undefined) {\n start = 0\n }\n if (end ===
undefined) {\n end = target ? target.length : 0\n }\n if (thisStart === undefined) {\n thisStart = 0\n }\n if
(thisEnd === undefined) {\n thisEnd = this.length\n }\n\n if (start < 0 || end > target.length || thisStart < 0 ||
thisEnd > this.length) {\n throw new RangeError('out of range index')\n }\n\n if (thisStart >= thisEnd && start
>= end) {\n return 0\n }\n if (thisStart >= thisEnd) {\n return -1\n }\n if (start >= end) {\n return 1\n }\n\n
start >>>= 0\n end >>>= 0\n thisStart >>>= 0\n thisEnd >>>= 0\n\n if (this === target) return 0\n\n var x =
thisEnd - thisStart\n var y = end - start\n var len = Math.min(x, y)\n\n var thisCopy = this.slice(thisStart,
thisEnd)\n var targetCopy = target.slice(start, end)\n\n for (var i = 0; i < len; ++i) {\n if (thisCopy[i] !==
targetCopy[i]) {\n
x = thisCopy[i]\n
y = targetCopy[i]\n
break\n }\n }\n\n if (x < y) return -1\n if (y <
x) return 1\n return 0\n}\n\n// Finds either the first index of `val` in `buffer` at offset >= `byteOffset`,\n// OR the last
index of `val` in `buffer` at offset <= `byteOffset`.\n//\n// Arguments:\n// - buffer - a Buffer to search\n// - val - a
string, Buffer, or number\n// - byteOffset - an index into `buffer`; will be clamped to an int32\n// - encoding - an
optional encoding, relevant is val is a string\n// - dir - true for indexOf, false for lastIndexOf\nfunction
bidirectionalIndexOf (buffer, val, byteOffset, encoding, dir) {\n // Empty buffer means no match\n if (buffer.length
=== 0) return -1\n\n // Normalize byteOffset\n if (typeof byteOffset === 'string') {\n encoding = byteOffset\n
byteOffset = 0\n } else if (byteOffset > 0x7fffffff) {\n byteOffset = 0x7fffffff\n } else if (byteOffset < 0x80000000) {\n byteOffset = -0x80000000\n }\n byteOffset = +byteOffset // Coerce to Number.\n if
(isNaN(byteOffset)) {\n // byteOffset: it it's undefined, null, NaN, \"foo\", etc, search whole buffer\n byteOffset
= dir ? 0 : (buffer.length - 1)\n }\n\n // Normalize byteOffset: negative offsets start from the end of the buffer\n if
(byteOffset < 0) byteOffset = buffer.length + byteOffset\n if (byteOffset >= buffer.length) {\n if (dir) return -1\n
else byteOffset = buffer.length - 1\n } else if (byteOffset < 0) {\n if (dir) byteOffset = 0\n else return -1\n }\n\n
// Normalize val\n if (typeof val === 'string') {\n val = Buffer.from(val, encoding)\n }\n\n // Finally, search
either indexOf (if dir is true) or lastIndexOf\n if (Buffer.isBuffer(val)) {\n // Special case: looking for empty
string/buffer always fails\n if (val.length === 0) {\n
return -1\n }\n return arrayIndexOf(buffer, val,
byteOffset, encoding, dir)\n } else if (typeof val === 'number') {\n val = val & 0xFF // Search for a byte value [0255]\n if (Buffer.TYPED_ARRAY_SUPPORT &&\n
typeof Uint8Array.prototype.indexOf === 'function')
{\n
if (dir) {\n
return Uint8Array.prototype.indexOf.call(buffer, val, byteOffset)\n
} else {\n
return
Uint8Array.prototype.lastIndexOf.call(buffer, val, byteOffset)\n
}\n }\n return arrayIndexOf(buffer, [ val ],
byteOffset, encoding, dir)\n }\n\n throw new TypeError('val must be string, number or Buffer')\n}\n\nfunction

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Math.min(buf.length, end) var res = []
  var i = start
  while (i < end) {
    var firstByte = buf[i]
    var codePoint = null
    var bytesPerSequence = (firstByte > 0xEF) ? 4
      : (firstByte > 0xDF) ? 3
      : (firstByte > 0xBF) ? 2
      : 1
    if (i + bytesPerSequence <= end) {
      var secondByte, thirdByte, fourthByte,
      tempCodePoint
      switch (bytesPerSequence) {
        case 1:
          codePoint = firstByte
          break
        case 2:
          secondByte = buf[i + 1]
          if ((secondByte & 0xC0) === 0x80) {
            tempCodePoint = (firstByte & 0x1F) << 0x6 | (secondByte & 0x3F)
            if (tempCodePoint > 0xFFFE) {
              codePoint = tempCodePoint
            } else if (tempCodePoint < 0x10FF) {
              codePoint = tempCodePoint
            } else if (tempCodePoint >= 0x1000) {
              codePoint = tempCodePoint
            }
          }
        case 3:
          secondByte = buf[i + 1]
          thirdByte = buf[i + 2]
          if ((secondByte & 0xC0) === 0x80 && (thirdByte & 0xC0) === 0x80) {
            tempCodePoint = (firstByte & 0xF) << 0xC | (secondByte & 0x3F) << 0x6 | (thirdByte & 0x3F)
            if (tempCodePoint > 0x7FF) {
              codePoint = tempCodePoint
            }
          }
        case 4:
          secondByte = buf[i + 1]
          thirdByte = buf[i + 2]
          fourthByte = buf[i + 3]
          if ((secondByte & 0xC0) === 0x80 && (thirdByte & 0xC0) === 0x80 && (fourthByte & 0xC0) === 0x80) {
            tempCodePoint = (firstByte & 0xF) << 0x12 | (secondByte & 0x3F) << 0xC | (thirdByte & 0x3F) << 0x6 | (fourthByte & 0x3F)
            if (tempCodePoint > 0xFFFF) {
              codePoint = tempCodePoint
            }
          }
      }
    }
    if (codePoint === null) {
      // we did not generate a valid codePoint so insert a'n
      // replacement char (U+FFFD) and advance only 1 byte
      codePoint = 0xFFFD
      bytesPerSequence = 1
    } else if (codePoint > 0xFFFF) {
      // encode to utf16 (surrogate pair dance)
      codePoint -= 0x10000
      res.push(codePoint >>> 10 & 0x3FF | 0xD800)
      codePoint = 0xDC00 | codePoint & 0x3FF
    }
    res.push(codePoint)
    i += bytesPerSequence
  }
  return decodeCodePointsArray(res)
}

// Based on
// http://stackoverflow.com/a/22747272/680742, the browser with the lowest limit is Chrome, with 0x10000
args.
// We go 1 magnitude less, for safety
var MAX_ARGUMENTS_LENGTH = 0x1000

function decodeCodePointsArray (codePoints) {
  var len = codePoints.length
  if (len <= MAX_ARGUMENTS_LENGTH) {
    return String.fromCharCode.apply(String, codePoints) // avoid extra slice()
  }
  // Decode in chunks to avoid "call stack size exceeded".
  var res = ''
  var i = 0
  while (i < len) {
    res += String.fromCharCode.apply(String, codePoints.slice(i, i + MAX_ARGUMENTS_LENGTH))
    i += MAX_ARGUMENTS_LENGTH
  }
  return res
}

function asciiSlice (buf, start, end) {
  var res = ''
  end = Math.min(buf.length, end)
  for (var i = start; i < end; ++i) {
    res += String.fromCharCode(buf[i] & 0x7F)
  }
  return res
}

function latin1Slice (buf, start, end) {
  var res = ''
  end = Math.min(buf.length, end)
  for (var i = start; i < end; ++i) {
    res += String.fromCharCode(buf[i])
  }
  return res
}

function hexSlice (buf, start, end) {
  var res = ''
  end = Math.min(buf.length, end)
  for (var i = start; i < end; ++i) {
    res += toHex(buf[i])
  }
  return res
}

Buffer.prototype.slice = function slice (start, end) {
  var len = this.length
  start = ~~start
  end = end === undefined ? len : ~~end

  if (start < 0) {
    start += len
    if (start < 0) start = 0
  }
  if (end < 0) {
    end += len
    if (end < 0) end = 0
  }
  if (end > len) {
    end = len
  }
  if (end < start) end = start
  var newBuf = Buffer.allocUnsafe(end - start)
  for (var i = 0; i < end; ++i) {
    newBuf[i] = buf[i + start]
  }
  return newBuf
}

/*
 * Need to make sure that buffer isn't trying to write out of bounds.
 */

function checkOffset (offset, ext, length) {
  if ((offset % 1) !== 0 || offset < 0) throw new RangeError('offset is not uint')
  if (offset + ext > length) throw new RangeError('Trying to access beyond buffer length')
  // Ensure buffer is not a新生
  var buf = Buffer.from(characters, 'utf8')
  var start = 0
  var length = characters.length
  while (start < length) {
    var codePoint = characters.charCodeAt(start)
    if (codePoint > 0xFFFF) {
      characters[start] = codePoint - 0x10000
    }
    start += 1
  }
  var offset = 0
  while (offset < length) {
    var codePoint = characters.charCodeAt(offset)
    if (codePoint > 0xFFFF) {
      characters[offset] = codePoint - 0x10000
    }
    offset += 1
  }

  if (!Buffer.TYPED_ARRAY_SUPPORT) {
    newBuf = new Buffer(length)
  } else {
    newBuf = new Buffer(length, 'binary')
  }

  var i = 0
  while (i < length) {
    newBuf[i] = characters[i]
    i += 1
  }
  return newBuf
}

/*function checkOffset (offset, ext, length) {
  if (offset % ext !== 0) throw new RangeError('offset is not a multiple of ext')
  if ((offset + ext) > length) throw new RangeError('Trying to access beyond buffer length')
}*/

function uint8Slice (buf, start, end) {
  var bytes = buf.slice(start, end)
  var res = ''
  for (var i = 0; i < bytes.length; i += 2) {
    res += String.fromCharCode.apply(String, [bytes[i], bytes[i + 1]])
  }
  return res
}
base64 strings (missing trailing ===), base64-js does not
while (str.length % 4 !== 0) {
  str = str + '='
}

  // Node converts strings with length < 2 to ''
  if (str.length < 2) return ''
  // Node allows for non-padded
  str = stringtrim(str).replace(INVALID_BASE64_RE,

function base64clean (str) {
  // Node strips out invalid
    }
  }

  return this
}

// HELPER FUNCTIONS
// ================

var
    var
    var
    targetStart
    )
  } else {
    Uint8Array.prototype.set.call(
      target,
      this.subarray(start, end)
    )
  }

  return len
}

// Usage:
//    buffer.fill(number, offset, end)
//    buffer.fill(buffer[, offset[, end]])
Buffer.prototype.fill = function fill (val, start, end, encoding) {
  // Handle string cases:
  if (typeof val === 'string') {
    if (typeof start === 'string') {
      encoding = start
    } else {
      start = 0
    }
    encoding = end
    end = this.length
    } else if (encoding === undefined &amp;&amp; typeof encoding === 'string') {
      throw new TypeError('encoding must be a string')
    }
    if (encoding !== undefined &amp;&amp; typeof encoding !== 'string') {
      encoding = end
      start = 0
      end = this.length
    }
    if (val.length === 1) {
      var code = val.charCodeAt(0)
      if (code < 256) {
        val = code
      } else if (encoding !== undefined &amp;&amp; typeof encoding !== 'string') {
        throw new TypeError('encoding must be a string')
      }
    }
    if (typeof encoding === 'string' &amp;&amp;
    Buffer.isEncoding(encoding)) {
      throw new TypeError('Unknown encoding: + encoding')
    } else if (typeof encoding === 'number') {
      val = Math.floor(val) &amp;&amp;
    0 ||
    this.isBuffer = function (val) {
      if (typeof val === 'object') {
        return !!(val.length &amp;&amp;
          val.constructor &amp;&amp;
          val.buffer &amp;&amp;
          typeof val.buffer.constructor === 'function')
      } else {
        return false
      }
    }

    Bit.prototype._readInt8 = function (offset, noAssert) {
      return this.buffer.readUInt8(offset, noAssert)
    }

    Bit.prototype._writeInt8 = function (value, offset, noAssert) {
      this.buffer.writeUInt8(value, offset, noAssert)
    }

    Bit.prototype._readInt16LE = function (offset, noAssert) {
      return this.buffer.readUInt16LE(offset, noAssert)
    }

    Bit.prototype._writeInt16LE = function (value, offset, noAssert) {
      this.buffer.writeUInt16LE(value, offset, noAssert)
    }

    Bit.prototype._readInt16BE = function (offset, noAssert) {
      return this.buffer.readUInt16BE(offset, noAssert)
    }

    Bit.prototype._writeInt16BE = function (value, offset, noAssert) {
      this.buffer.writeUInt16BE(value, offset, noAssert)
    }

    Bit.prototype._readInt32LE = function (offset, noAssert) {
      return this.buffer.readUInt32LE(offset, noAssert)
    }

    Bit.prototype._writeInt32LE = function (value, offset, noAssert) {
      this.buffer.writeUInt32LE(value, offset, noAssert)
    }

    Bit.prototype._readInt32BE = function (offset, noAssert) {
      return this.buffer.readUInt32BE(offset, noAssert)
    }

    Bit.prototype._writeInt32BE = function (value, offset, noAssert) {
      this.buffer.writeUInt32BE(value, offset, noAssert)
    }

    Bit.prototype._readInt64LE = function (offset, noAssert) {
      return this.buffer.readUInt64LE(offset, noAssert)
    }

    Bit.prototype._writeInt64LE = function (value, offset, noAsser
BN.wordSize = 26;\n\n var Buffer;\n try {\n Buffer = require('buffer').Buffer;\n } catch (e) {\n }\n\n BN.isBN =
function isBN (num) {\n if (num instanceof BN) {\n
return true;\n }\n\n return num !== null && typeof
num === 'object' &&\n
num.constructor.wordSize === BN.wordSize && Array.isArray(num.words);\n };\n\n
BN.max = function max (left, right) {\n if (left.cmp(right) > 0) return left;\n return right;\n };\n\n BN.min =
function min (left, right) {\n if (left.cmp(right) < 0) return left;\n return right;\n };\n\n BN.prototype._init =
function init (number, base, endian) {\n if (typeof number === 'number') {\n
return this._initNumber(number,
base, endian);\n }\n\n if (typeof number === 'object') {\n
return this._initArray(number, base, endian);\n
}\n\n if (base === 'hex') {\n
base = 16;\n }\n assert(base === (base | 0) && base >= 2 && base <= 36);\n\n
number = number.toString().replace(/\\s+/g, '');\n var start = 0;\n if (number[0] === '-') {\n
start++;\n }\n\n
if (base === 16) {\n
this._parseHex(number, start);\n } else {\n
this._parseBase(number, base, start);\n
}\n\n if (number[0] === '-') {\n
this.negative = 1;\n }\n\n this.strip();\n\n if (endian !== 'le') return;\n\n
this._initArray(this.toArray(), base, endian);\n };\n\n BN.prototype._initNumber = function _initNumber (number,
base, endian) {\n if (number < 0) {\n
this.negative = 1;\n
number = -number;\n }\n if (number <
0x4000000) {\n
this.words = [ number & 0x3ffffff ];\n
this.length = 1;\n } else if (number <
0x10000000000000) {\n
this.words = [\n
number & 0x3ffffff,\n
(number / 0x4000000) & 0x3ffffff\n
];\n
this.length = 2;\n } else {\n
assert(number < 0x20000000000000); // 2 ^ 53 (unsafe)\n
this.words =
[\n
number & 0x3ffffff,\n
(number / 0x4000000) & 0x3ffffff,\n
1\n
];\n
this.length = 3;\n }\n\n
if (endian !== 'le') return;\n\n // Reverse the bytes\n this._initArray(this.toArray(), base, endian);\n };\n\n
BN.prototype._initArray = function _initArray (number, base, endian) {\n // Perhaps a Uint8Array\n
assert(typeof number.length === 'number');\n if (number.length <= 0) {\n
this.words = [ 0 ];\n
this.length =
1;\n
return this;\n }\n\n this.length = Math.ceil(number.length / 3);\n this.words = new Array(this.length);\n
for (var i = 0; i < this.length; i++) {\n
this.words[i] = 0;\n }\n\n var j, w;\n var off = 0;\n if (endian ===
'be') {\n
for (i = number.length - 1, j = 0; i >= 0; i -= 3) {\n
w = number[i] | (number[i - 1] << 8) | (number[i 2] << 16);\n
this.words[j] |= (w << off) & 0x3ffffff;\n
this.words[j + 1] = (w >>> (26 - off)) & 0x3ffffff;\n
off += 24;\n
if (off >= 26) {\n
off -= 26;\n
j++;\n
}\n
}\n } else if (endian === 'le') {\n
for (i = 0, j = 0; i < number.length; i += 3) {\n
w = number[i] | (number[i + 1] << 8) | (number[i + 2] << 16);\n
this.words[j] |= (w << off) & 0x3ffffff;\n
this.words[j + 1] = (w >>> (26 - off)) & 0x3ffffff;\n
off += 24;\n
if (off >= 26) {\n
off -= 26;\n
j++;\n
}\n
}\n }\n return this.strip();\n };\n\n function
parseHex (str, start, end) {\n var r = 0;\n var len = Math.min(str.length, end);\n for (var i = start; i < len; i++)
{\n
var c = str.charCodeAt(i) - 48;\n\n r <<= 4;\n\n
// 'a' - 'f'\n
if (c >= 49 && c <= 54) {\n
r |= c 49 + 0xa;\n\n
// 'A' - 'F'\n
} else if (c >= 17 && c <= 22) {\n
r |= c - 17 + 0xa;\n\n
// '0' - '9'\n
} else
{\n
r |= c & 0xf;\n
}\n }\n return r;\n }\n\n BN.prototype._parseHex = function _parseHex (number,
start) {\n // Create possibly bigger array to ensure that it fits the number\n this.length = Math.ceil((number.length
- start) / 6);\n this.words = new Array(this.length);\n for (var i = 0; i < this.length; i++) {\n
this.words[i] =
0;\n }\n\n var j, w;\n // Scan 24-bit chunks and add them to the number\n var off = 0;\n for (i =
number.length - 6, j = 0; i >= start; i -= 6) {\n
w = parseHex(number, i, i + 6);\n
this.words[j] |= (w << off) &
0x3ffffff;\n
// NOTE: `0x3fffff` is intentional here, 26bits max shift + 24bit hex limb\n
this.words[j + 1] |= w
>>> (26 - off) & 0x3fffff;\n
off += 24;\n
if (off >= 26) {\n
off -= 26;\n
j++;\n
}\n }\n if (i + 6
!== start) {\n
w = parseHex(number, start, i + 6);\n
this.words[j] |= (w << off) & 0x3ffffff;\n
this.words[j +
1] |= w >>> (26 - off) & 0x3fffff;\n }\n this.strip();\n };\n\n function parseBase (str, start, end, mul) {\n var r
= 0;\n var len = Math.min(str.length, end);\n for (var i = start; i < len; i++) {\n
var c = str.charCodeAt(i) 48;\n\n
r *= mul;\n\n
// 'a'\n
if (c >= 49) {\n
r += c - 49 + 0xa;\n\n
// 'A'\n
} else if (c >= 17) {\n
r += c - 17 + 0xa;\n\n
// '0' - '9'\n
} else {\n
r += c;\n
}\n }\n return r;\n }\n\n
BN.prototype._parseBase = function _parseBase (number, base, start) {\n // Initialize as zero\n this.words = [ 0
];\n this.length = 1;\n\n // Find length of limb in base\n for (var limbLen = 0, limbPow = 1; limbPow <=
0x3ffffff; limbPow *= base) {\n
limbLen++;\n }\n limbLen--;\n limbPow = (limbPow / base) | 0;\n\n var
total = number.length - start;\n var mod = total % limbLen;\n var end = Math.min(total, total - mod) + start;\n\n
var word = 0;\n for (var i = start; i < end; i += limbLen) {\n
word = parseBase(number, i, i + limbLen,

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base);\n\n
this.imuln(limbPow);\n
if (this.words[0] + word < 0x4000000) {\n
this.words[0] += word;\n
} else {\n
this._iaddn(word);\n
}\n }\n\n if (mod !== 0) {\n
var pow = 1;\n
word =
parseBase(number, i, number.length, base);\n\n
for (i = 0; i < mod; i++) {\n
pow *= base;\n
}\n\n
this.imuln(pow);\n
if (this.words[0] + word < 0x4000000) {\n
this.words[0] += word;\n
} else {\n
this._iaddn(word);\n
}\n }\n };\n\n BN.prototype.copy = function copy (dest) {\n dest.words = new
Array(this.length);\n for (var i = 0; i < this.length; i++) {\n
dest.words[i] = this.words[i];\n }\n dest.length =
this.length;\n dest.negative = this.negative;\n dest.red = this.red;\n };\n\n BN.prototype.clone = function clone
() {\n var r = new BN(null);\n this.copy(r);\n return r;\n };\n\n BN.prototype._expand = function _expand
(size) {\n while (this.length < size) {\n this.words[this.length++] = 0;\n }\n return this;\n };\n\n // Remove
leading `0` from `this`\n BN.prototype.strip = function strip () {\n while (this.length > 1 &&
this.words[this.length - 1] === 0) {\n
this.length--;\n }\n return this._normSign();\n };\n\n
BN.prototype._normSign = function _normSign () {\n // -0 = 0\n if (this.length === 1 && this.words[0] === 0)
{\n
this.negative = 0;\n }\n return this;\n };\n\n BN.prototype.inspect = function inspect () {\n return
(this.red ? '<BN-R: ' : '<BN: ') + this.toString(16) + '>';\n };\n\n /*\n\n var zeros = [];\n var groupSizes = [];\n var
groupBases = [];\n\n var s = '';\n var i = -1;\n while (++i < BN.wordSize) {\n zeros[i] = s;\n s += '0';\n }\n
groupSizes[0] = 0;\n groupSizes[1] = 0;\n groupBases[0] = 0;\n groupBases[1] = 0;\n var base = 2 - 1;\n while
(++base < 36 + 1) {\n var groupSize = 0;\n var groupBase = 1;\n while (groupBase < (1 << BN.wordSize) /
base) {\n
groupBase *= base;\n
groupSize += 1;\n }\n groupSizes[base] = groupSize;\n
groupBases[base] = groupBase;\n }\n\n */\n\n var zeros = [\n '',\n '0',\n '00',\n '000',\n '0000',\n
'00000',\n '000000',\n '0000000',\n '00000000',\n '000000000',\n '0000000000',\n '00000000000',\n
'000000000000',\n '0000000000000',\n '00000000000000',\n '000000000000000',\n '0000000000000000',\n
'00000000000000000',\n '000000000000000000',\n '0000000000000000000',\n '00000000000000000000',\n
'000000000000000000000',\n '0000000000000000000000',\n '00000000000000000000000',\n
'000000000000000000000000',\n '0000000000000000000000000'\n ];\n\n var groupSizes = [\n 0, 0,\n 25, 16,
12, 11, 10, 9, 8,\n 8, 7, 7, 7, 7, 6, 6,\n 6, 6, 6, 6, 6, 5, 5,\n 5, 5, 5, 5, 5, 5, 5,\n 5, 5, 5, 5, 5, 5, 5\n ];\n\n var
groupBases = [\n 0, 0,\n 33554432, 43046721, 16777216, 48828125, 60466176, 40353607, 16777216,\n
43046721, 10000000, 19487171, 35831808, 62748517, 7529536, 11390625,\n 16777216, 24137569, 34012224,
47045881, 64000000, 4084101, 5153632,\n 6436343, 7962624, 9765625, 11881376, 14348907, 17210368,
20511149,\n 24300000, 28629151, 33554432, 39135393, 45435424, 52521875, 60466176\n ];\n\n
BN.prototype.toString = function toString (base, padding) {\n base = base || 10;\n padding = padding | 0 || 1;\n\n
var out;\n if (base === 16 || base === 'hex') {\n
out = '';\n
var off = 0;\n
var carry = 0;\n
for (var i = 0; i
< this.length; i++) {\n
var w = this.words[i];\n
var word = (((w << off) | carry) & 0xffffff).toString(16);\n
carry = (w >>> (24 - off)) & 0xffffff;\n
if (carry !== 0 || i !== this.length - 1) {\n
out = zeros[6 word.length] + word + out;\n
} else {\n
out = word + out;\n
}\n
off += 2;\n
if (off >= 26) {\n
off -= 26;\n
i--;\n
}\n
}\n
if (carry !== 0) {\n
out = carry.toString(16) + out;\n
}\n
while (out.length % padding !== 0) {\n
out = '0' + out;\n
}\n
if (this.negative !== 0) {\n
out = '-' +
out;\n
}\n
return out;\n }\n\n if (base === (base | 0) && base >= 2 && base <= 36) {\n
// var groupSize
= Math.floor(BN.wordSize * Math.LN2 / Math.log(base));\n
var groupSize = groupSizes[base];\n
// var
groupBase = Math.pow(base, groupSize);\n
var groupBase = groupBases[base];\n
out = '';\n
var c =
this.clone();\n
c.negative = 0;\n
while (!c.isZero()) {\n
var r = c.modn(groupBase).toString(base);\n
c
= c.idivn(groupBase);\n\n
if (!c.isZero()) {\n
out = zeros[groupSize - r.length] + r + out;\n
} else {\n
out = r + out;\n
}\n
}\n
if (this.isZero()) {\n
out = '0' + out;\n
}\n
while (out.length %
padding !== 0) {\n
out = '0' + out;\n }\n
if (this.negative !== 0) {\n
out = '-' + out;\n
}\n
return
out;\n }\n\n assert(false, 'Base should be between 2 and 36');\n };\n\n BN.prototype.toNumber = function
toNumber () {\n var ret = this.words[0];\n if (this.length === 2) {\n
ret += this.words[1] * 0x4000000;\n }
else if (this.length === 3 && this.words[2] === 0x01) {\n
// NOTE: at this stage it is known that the top bit is
set\n
ret += 0x10000000000000 + (this.words[1] * 0x4000000);\n } else if (this.length > 2) {\n
assert(false,
'Number can only safely store up to 53 bits');\n }\n return (this.negative !== 0) ? -ret : ret;\n };\n\n

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BN.prototype.toJSON = function toJSON () {
    return this.toString(16);
};
BN.prototype.toBuffer = function toBuffer (endian, length) {
    var byteLength = this.byteLength();
    var reqLength = length || Math.max(1, byteLength);
    var buffer = new Buffer(reqLength);
    var i;
    for (i = 0; i < byteLength; i++) {
        buffer[i] = this.words[i] & 0xff;
    }
    return buffer;
};

BN.prototype.toArrayLike = function toArrayLike (ArrayType, endian, length) {
    var byteLength = this.byteLength();
    var reqLength = length || Math.max(1, byteLength);
    if (endian !== 'le' || byteLength <= reqLength) {
        return this.toArray(endian, length);
    } else {
        return this.toArray(endian, reqLength);
    }
};

BN.prototype.toArray = function toArray (endian, length) {
    return this.toArrayLike(Array, endian, length);
};

BN.prototype.toBuffer = function toBuffer (endian, length) {
    var byteLength = this.byteLength();
    var reqLength = length || Math.max(1, byteLength);
    var buffer = new Buffer(reqLength);
    var i;
    for (i = 0; i < byteLength; i++) {
        buffer[i] = this.words[i] & 0xff;
    }
    return buffer;
};

BN.prototype.toArrayLike = function toArrayLike (ArrayType, endian, length) {
    var byteLength = this.byteLength();
    var reqLength = length || Math.max(1, byteLength);
    if (endian !== 'le' || byteLength <= reqLength) {
        return this.toArray(endian, length);
    } else {
        return this.toArray(endian, reqLength);
    }
};

BN.prototype.toArray = function toArray (endian, length) {
    return this.toArrayLike(Array, endian, length);
};

BN.prototype.toBuffer = function toBuffer (endian, length) {
    var byteLength = this.byteLength();
    var reqLength = length || Math.max(1, byteLength);
    var buffer = new Buffer(reqLength);
    var i;
    for (i = 0; i < byteLength; i++) {
        buffer[i] = this.words[i] & 0xff;
    }
    return buffer;
};

BN.prototype.toArrayLike = function toArrayLike (ArrayType, endian, length) {
    var byteLength = this.byteLength();
    var reqLength = length || Math.max(1, byteLength);
    if (endian !== 'le' || byteLength <= reqLength) {
        return this.toArray(endian, length);
    } else {
        return this.toArray(endian, reqLength);
    }
};

BN.prototype.toArray = function toArray (endian, length) {
    return this.toArrayLike(Array, endian, length);
};
var a; var b; if (this.length > num.length) {\n  a = this;\n  b = num;\n} else {\n  a = num;\n  b = this;\n}\nfor (var i = 0; i < b.length; i++) {\n  this.words[i] = a.words[i] ^ b.words[i];\n}\nif (this !== a) {\n  for (; i < a.length; i++) {\n    this.words[i] = a.words[i];\n  }\n}\n\nreturn this.strip();\n}\nBN.prototype.ixor = function ixor (num) {\n  assert((this.negative | num.negative) === 0);\n  return this.iuxor(num);\n};\n// Xor 'num' with 'this'\nBN.prototype.xor = function xor (num) {\n  if (this.length > num.length) return this.clone().xor(num);\n  return num.clone().xor(this);\n}\nBN.prototype.xor = function xor (num) {\n  if (this.length > num.length) return this.clone().xor(num);\n  return num.clone().xor(this);\n}\n// Not 'this' with 'width' bitwidth\nBN.prototype.inotn = function\n  inotn (width) {\n    assert(typeof width === 'number' && width >= 0);\n    var bytesNeeded = Math.ceil(width / 26) | 0;\n    var bitsLeft = width % 26;\n    \n    // Extend the buffer with leading zeroes\n    this._expand(bytesNeeded);\n    if (bitsLeft > 0) {\n      bytesNeeded--;\n    }\n    \n    // Handle complete words\n    for (var i = 0; i < bytesNeeded; i++) {\n      this.words[i] = this.words[i] & 0x3ffffff;\n    }\n    \n    // Handle the residue\n    if (bitsLeft > 0) {\n      this.words[this.length] = ~this.words[this.length] & (0x3ffffff >> (26 - bitsLeft));\n    }\n    \n    // And remove leading zeroes\n    return this.strip();\n  };
BN.prototype.iuxor = function iuxor (num) {\n  if (this.negative === 0) {\n    return num.clone().iuxor(this);\n  }\n  \n  // Subtract `num` from `this`\n  return this.clone().iuxor(num);\n}\nBN.prototype.xor = function xor (num) {\n  if (this.length > num.length) return this.clone().xor(num);\n  return num.clone().xor(this);\n}\n// Subtract `num` from `this`\nBN.prototype.sub = function sub (num) {\n  return this.clone().sub(num);\n}\nBN.prototype.iadd = function iadd (num) {\n  var r;\n  // negative + positive\n  if (this.negative === 0) {\n    r = this.isub(num);\n    return r._normSign();\n  }\n  \n  // positive + negative\n  if (this.negative !== 0) {\n    r = this.isub(num);\n    this.negative ^= 1;\n    return r._normSign();\n  }\n  \n  // negative + negative\n  return this.clone().iadd(num);\n}\nBN.prototype.setn = function setn (bit, val) {\n  if (this.negative !== 0) {\n    this.negative = 1;\n    return this._normSign();\n  }\n  \n  // Remove leading zeroes\n  this._expand(26);\n  var off = (bit / 26) | 0;\n  var wbit = bit % 26;\n  this._expand(1);\n  if (val) {\n    this.words[off] = this.words[off] | (1 << wbit);\n  } else {\n    this.words[off] = this.words[off] & ~(1 << wbit);\n  }\n  \n  // Set 'bit' of 'this'\n  BN.prototype.setn = function setn (bit, val) {\n    if (this.negative !== 0) {\n      this.negative = 1;\n      return this._normSign();\n    }\n    \n    // Positive\n    if (this.negative === 0) {\n      this.negative = 1;\n      return this._normSign();\n    }\n    \n    // Optimization - zeroify\n    if (cmp === 0) {\n      this.negative = 0;\n      return r._normSign();\n    } else if (this.negative !== 0) {\n      this.negative = 0;\n      r = this.isub(num);\n      this.negative ^= 1;\n      return r._normSign();\n    }\n    \n    // At this point both numbers are positive\n    var cmp = this.cmp(num);\n    \n    // Optimization - zeroify\n    if (cmp === 0) {\n      this.negative = 0;\n      this.length = 1;\n      this.words[0] = 0;\n      return this;\n    }\n    \n    // a > b
    if (cmp > 0) {\n      a = this;\n      b = num;\n    } else {\n      a = num;\n      b = this;\n    }\n    \n    var carry = 0;\n    for (var i = 0; i < b.length; i++) {\n      r = (a.words[i] | 0) + (b.words[i] | 0) + carry;\n      this.words[i] = r & 0x3ffffff;\n      carry = r >>> 26;\n    }\n    \n    // Copy rest of the words\n    if (bitsLeft > 0) {\n      for (; carry !== 0 && i < a.length; i++) {\n        this.words[i] = this.words[i] | (1 << wbit);\n      }\n    }\n    \n    // Return\n    return this;\n  };
BN.prototype.add = function add (num) {\n  var res;\n  if (this.negative !== 0) {\n    return this.clone().iadd(num);\n  }\n  \n  // Subtract `num` from `this`\n  return this.clone().ixor(num);\n}\nBN.prototype.sub = function sub (num) {\n  return this.clone().sub(num);\n}\n// Subtract `num` from `this`\nBN.prototype.sub = function sub (num) {\n  return this.clone().sub(num);\n}\nBN.prototype.iadd = function iadd (num) {\n  var r;\n  // negative + positive\n  if (this.negative === 0) {\n    r = this.isub(num);\n    return r._normSign();\n  } else if (this.negative !== 0) {\n    r = this.isub(num);\n    this.negative = 1;\n    return r._normSign();\n  }\n  \n  // positive + negative\n  if (this.negative !== 0) {\n    r = this.isub(num);\n    this.negative = 1;\n    return r._normSign();\n  }\n  \n  // negative + negative\n  return this.clone().iadd(num);\n}\nBN.prototype.setn = function setn (bit, val) {\n  if (this.negative !== 0) {\n    this.negative = 1;\n    return this._normSign();\n  }\n  \n  // Remove leading zeroes\n  this._expand(26);\n  var off = (bit / 26) | 0;\n  var wbit = bit % 26;\n  this._expand(1);\n  if (val) {\n    this.words[off] = this.words[off] | (1 << wbit);\n  } else {\n    this.words[off] = this.words[off] & ~(1 << wbit);\n  }\n  \n  // Set 'bit' of 'this'\n  BN.prototype.setn = function setn (bit, val) {\n    if (this.negative !== 0) {\n      this.negative = 1;\n      return this._normSign();\n    }\n    \n    // Positive\n    if (this.negative === 0) {\n      this.negative = 1;\n      return this._normSign();\n    }\n    \n    // Optimization - zeroify\n    if (cmp === 0) {\n      this.negative = 0;\n      return r._normSign();\n    } else if (this.negative !== 0) {\n      this.negative = 0;\n      r = this.isub(num);\n      this.negative ^= 1;\n      return r._normSign();\n    }\n    \n    // At this point both numbers are positive\n    var cmp = this.cmp(num);\n    \n    // Optimization - zeroify\n    if (cmp === 0) {\n      this.negative = 0;\n      this.length = 1;\n      this.words[0] = 0;\n      return this;\n    }\n    \n    // a > b
    if (cmp > 0) {\n      a = this;\n      b = num;\n    } else {\n      a = num;\n      b = this;\n    }\n    \n    var carry = 0;\n    for (var i = 0; i < b.length; i++) {\n      r = (a.words[i] | 0) + (b.words[i] | 0) + carry;\n      this.words[i] = r & 0x3ffffff;\n      carry = r >>> 26;\n    }\n    \n    // Copy rest of the words\n    if (bitsLeft > 0) {\n      for (; carry !== 0 && i < a.length; i++) {\n        this.words[i] = this.words[i] | (1 << wbit);\n      }\n    }\n    \n    // Return\n    return this;\n  };
BN.prototype.add = function add (num) {\n  var res;\n  if (this.negative !== 0) {\n    return this.clone().iadd(num);\n  }\n  \n  // Subtract `num` from `this`\n  return this.clone().ixor(num);\n}\nBN.prototype.xor = function xor (num) {\n  if (this.length > num.length) return this.clone().xor(num);\n  return num.clone().xor(this);\n}\n// Subtract 'num' from 'this'\nBN.prototype.sub = function sub (num) {\n  return this.clone().sub(num);\n}\n// Function smallMulTo (self, num, out) {\n  out.negative = num.negative ^ self.negative;\n  var len = (self.length + num.length) | 0;\n  out.length = len;\n  len = (len - 1) | 0;\n  // Peel one iteration (compiler can't do it, because of code complexity)\n
var a = self.words[0];
var b = num.words[0];
var c = 0;
lo = r & 0x3ffffff;
var carry = (r / 0x40000000) | 0;
out.words[0] = lo;
for (var k = 1; k < len; k++) {
// Sum all words with the same "i + j = k" and accumulate "ncarry",
// note that ncarry could be >= 0x3ffffff
var carry = carry >>> 26;
var rword = carry & 0x3ffffff;
var maxJ = Math.min(k, num.length - 1);
for (var j = Math.max(0, k - self.length + 1); j <= maxJ; j++) {
var i = (k - j) | 0;
var a = self.words[i];
var b = num.words[j];
var r = a * b + rword;
ncarry += r;
out.words[k] = rword;
var carry = ncarry;
}
if (carry !== 0) {
out.words[k] = carry;
}
}

return out.strip();
}

// TODO(indutny): it may be reasonable to omit it for users who
do n't need it to work with 256-bit numbers, otherwise it gives 20% improvement for 256-bit
// multiplication (like elliptic secp256k1).
var comb10MulTo = function comb10MulTo (self, num, out) {
var a = self.words;
var b = num.words;
var c = 0;
var mid;
var hi;
vvar a0 = a[0];
var al0 = a[0] & 0x1fff;
var ah0 = a[0] >>> 13;
var a1 = a[1] | 0;
var al1 = a[1] & 0x1fff;
var ah1 = a[1] >>> 13;
var a2 = a[2] | 0;
var al2 = a[2] & 0x1fff;
var ah2 = a[2] >>> 13;
var a3 = a[3] | 0;
var al3 = a[3] & 0x1fff;
var ah3 = a[3] >>> 13;
var a4 = a[4] | 0;
var al4 = a[4] & 0x1fff;
var ah4 = a[4] >>> 13;
var a5 = a[5] | 0;
var al5 = a[5] & 0x1fff;
var ah5 = a[5] >>> 13;
var a6 = a[6] | 0;
var al6 = a[6] & 0x1fff;
var ah6 = a[6] >>> 13;
var a7 = a[7] | 0;
var al7 = a[7] & 0x1fff;
var ah7 = a[7] >>> 13;
var a8 = a[8] | 0;
var al8 = a[8] & 0x1fff;
var ah8 = a[8] >>> 13;
var a9 = a[9] | 0;
var al9 = a[9] & 0x1fff;
var ah9 = a[9] >>> 13;
var b0 = b[0] | 0;
var bl0 = b[0] & 0x1fff;
var bh0 = b[0] >>> 13;
var b1 = b[1] | 0;
var bl1 = b[1] & 0x1fff;
var bh1 = b[1] >>> 13;
var b2 = b[2] | 0;
var bl2 = b[2] & 0x1fff;
var bh2 = b[2] >>> 13;
var b3 = b[3] | 0;
var bl3 = b[3] & 0x1fff;
var bh3 = b[3] >>> 13;
var b4 = b[4] | 0;
var bl4 = b[4] & 0x1fff;
var bh4 = b[4] >>> 13;
var b5 = b[5] | 0;
var bl5 = b[5] & 0x1fff;
var bh5 = b[5] >>> 13;
var b6 = b[6] | 0;
var bl6 = b[6] & 0x1fff;
var bh6 = b[6] >>> 13;
var b7 = b[7] | 0;
var bl7 = b[7] & 0x1fff;
var bh7 = b[7] >>> 13;
var b8 = b[8] | 0;
var bl8 = b[8] & 0x1fff;
var bh8 = b[8] >>> 13;
var b9 = b[9] | 0;
var bl9 = b[9] & 0x1fff;
var bh9 = b[9] >>> 13;
}

out.negative = self.negative ^ num.negative;
out.length = out.length - 19;
/* k = 0 */
lo = Math.imul(a0, b0);
mid = (mid + Math.imul(a0, b0));
}

rword | 0;
carry = ncarry | 0;
}
if (carry !== 0) {
out.words[k] = carry;
}
}

return out.strip();
}

// TODO(indutny): it may be reasonable to omit it for users who
do n't need it to work with 256-bit numbers, otherwise it gives 20% improvement for 256-bit
// multiplication (like elliptic secp256k1).

Math.imul(ah1, bl3)) | 0; \n hi = (hi + Math.imul(ah1, bh3)) | 0; \n lo = (lo + Math.imul(al0, bl4)) | 0; \n mid = (mid + Math.imul(al0, bh4)) | 0; \n mid = (mid + Math.imul(a0, bh4)) | 0; \n mid = (mid + Math.imul(ah0, bh4)) | 0; \n hi = (hi + Math.imul(ah0, bh4)) | 0; \n var w4 = (((c + lo) | 0) + (((mid & 0x1fff) << 13)) | 0; \n c = (((hi + (mid >>> 13)) | 0) + (w4 >>> 26)) | 0; \n w4 &= 0x3ffffff; \n /* k = 5 */ \n lo = Math.imul(al5, bl0); \n mid = Math.imul(al5, bh0); \n mid = (mid + Math.imul(ah5, bl0)) | 0; \n hi = Math.imul(ah5, bh0); \n lo = (lo + Math.imul(al4, bl1)) | 0; \n mid = (mid + Math.imul(al4, bh1)) | 0; \n mid = (mid + Math.imul(ah4, bh1)) | 0; \n hi = (hi + Math.imul(ah4, bh1)) | 0; \n lo = (lo + Math.imul(al3, bl2)) | 0; \n mid = (mid + Math.imul(al3, bh2)) | 0; \n mid = (mid + Math.imul(ah3, bh2)) | 0; \n hi = (hi + Math.imul(ah3, bh2)) | 0; \n lo = (lo + Math.imul(al2, bl3)) | 0; \n mid = (mid + Math.imul(al2, bh3)) | 0; \n mid = (mid + Math.imul(ah2, bh3)) | 0; \n hi = (hi + Math.imul(ah2, bh3)) | 0; \n lo = (lo + Math.imul(al1, bl4)) | 0; \n mid = (mid + Math.imul(al1, bh4)) | 0; \n hi = (hi + Math.imul(ah1, bh4)) | 0; \n lo = (lo + Math.imul(al0, bl5)) | 0; \n mid = (mid + Math.imul(al0, bh5)) | 0; \n mid = (mid + Math.imul(ah0, bh5)) | 0; \n var w5 = (((c + lo) | 0) + (((mid & 0x1fff) << 13)) | 0; \n c = (((hi + (mid >>> 13)) | 0) + (w5 >>> 26)) | 0; \n w5 &= 0x3ffffff; \n /* k = 6 */ \n lo = Math.imul(al6, bl0); \n mid = Math.imul(al6, bh0); \n mid = (mid + Math.imul(ah6, bh0)) | 0; \n hi = Math.imul(ah6, bh0); \n lo = (lo + Math.imul(al5, bl1)) | 0; \n mid = (mid + Math.imul(al5, bh1)) | 0; \n mid = (mid + Math.imul(ah5, bh1)) | 0; \n hi = (hi + Math.imul(ah5, bh1)) | 0; \n lo = (lo + Math.imul(al4, bl2)) | 0; \n mid = (mid + Math.imul(al4, bh2)) | 0; \n mid = (mid + Math.imul(ah4, bh2)) | 0; \n hi = (hi + Math.imul(ah4, bh2)) | 0; \n lo = (lo + Math.imul(al3, bl3)) | 0; \n mid = (mid + Math.imul(al3, bh3)) | 0; \n mid = (mid + Math.imul(ah3, bh3)) | 0; \n hi = (hi + Math.imul(ah3, bh3)) | 0; \n lo = (lo + Math.imul(al2, bl4)) | 0; \n mid = (mid + Math.imul(al2, bh4)) | 0; \n hi = (hi + Math.imul(ah2, bh4)) | 0; \n lo = (lo + Math.imul(al1, bl5)) | 0; \n mid = (mid + Math.imul(al1, bh5)) | 0; \n mid = (mid + Math.imul(ah1, bh5)) | 0; \n hi = (hi + Math.imul(ah1, bh5)) | 0; \n lo = (lo + Math.imul(al0, bl6)) | 0; \n mid = (mid + Math.imul(al0, bh6)) | 0; \n mid = (mid + Math.imul(ah0, bh6)) | 0; \n hi = (hi + Math.imul(ah0, bh6)) | 0; \n var w6 = ((((c + lo) | 0) + (((mid & 0x1fff) << 13)) | 0; \n c = (((hi + (mid >>> 13)) | 0) + (w6 >>> 26)) | 0; \n w6 &= 0x3ffffff; \n /* k = 7 */ \n lo = Math.imul(al7, bl0); \n mid = Math.imul(al7, bh0); \n mid = (mid + Math.imul(ah7, bh0)) | 0; \n hi = (hi + Math.imul(ah7, bh0)) | 0; \n lo = (lo + Math.imul(al6, bl1)) | 0; \n mid = (mid + Math.imul(al6, bh1)) | 0; \n hi = (hi + Math.imul(ah6, bh1)) | 0; \n lo = (lo + Math.imul(al5, bl2)) | 0; \n mid = (mid + Math.imul(al5, bh2)) | 0; \n mid = (mid + Math.imul(ah5, bh2)) | 0; \n hi = (hi + Math.imul(ah5, bh2)) | 0; \n lo = (lo + Math.imul(al4, bl3)) | 0; \n mid = (mid + Math.imul(al4, bh3)) | 0; \n mid = (mid + Math.imul(ah4, bh3)) | 0; \n hi = (hi + Math.imul(ah4, bh3)) | 0; \n lo = (lo + Math.imul(al3, bl4)) | 0; \n mid = (mid + Math.imul(al3, bh4)) | 0; \n mid = (mid + Math.imul(ah3, bh4)) | 0; \n hi = (hi + Math.imul(ah3, bh4)) | 0; \n lo = (lo + Math.imul(al2, bl5)) | 0; \n mid = (mid + Math.imul(al2, bh5)) | 0; \n hi = (hi + Math.imul(ah2, bh5)) | 0; \n lo = (lo + Math.imul(al1, bl6)) | 0; \n mid = (mid + Math.imul(al1, bl6)) | 0; \n mid = (mid + Math.imul(ah1, bl6)) | 0; \n hi = (hi + Math.imul(ah1, bl6)) | 0; \n lo = (lo + Math.imul(al0, bl7)) | 0; \n mid = (mid + Math.imul(al0, bh7)) | 0; \n mid = (mid + Math.imul(ah0, bh7)) | 0; \n hi = (hi + Math.imul(ah0, bh7)) | 0; \n var w7 = ((((c + lo) | 0) + (((mid & 0x1fff) << 13)) | 0; \n c = (((hi + (mid >>> 13)) | 0) + (w7 >>> 26)) | 0; \n w7 &= 0x3ffffff; \n /* k = 8 */ \n lo = Math.imul(al8, bl0); \n mid = Math.imul(al8, bh0); \n mid = (mid + Math.imul(ah8, bh0)) | 0; \n hi = Math.imul(ah8, bh0); \n lo = (lo + Math.imul(al7, bl1)) | 0; \n mid = (mid + Math.imul(al7, bh1)) | 0; \n hi = (hi + Math.imul(ah7, bh1)) | 0; \n lo = (lo + Math.imul(al6, bl2)) | 0; \n mid = (mid + Math.imul(al6, bh2)) | 0; \n mid = (mid + Math.imul(ah6, bh2)) | 0; \n lo = (lo + Math.imul(al5, bl3)) | 0; \n mid = (mid + Math.imul(al5, bh3)) | 0; \n mid = (mid + Math.imul(ah5, bh3)) | 0; \n hi = (hi + Math.imul(ah5, bh3)) | 0; \n lo = (lo + Math.imul(al4, bl4)) | 0; \n mid = (mid + Math.imul(al4, bh4)) | 0; \n mid = (mid + Math.imul(ah4, bh4)) | 0; \n hi = (hi + Math.imul(ah4, bh4)) | 0; \n lo = (lo + Math.imul(al3, bl5)) | 0; \n mid = (mid + Math.imul(al3, bh5)) | 0; \n mid = (mid + Math.imul(ah3, bh5)) | 0; \n lo = (lo + Math.imul(al2, bl6)) | 0; \n mid = (mid + Math.imul(al2, bh6)) | 0; \n mid = (mid + Math.imul(ah2, bh6)) | 0; \n hi = (hi + Math.imul(ah2, bh6)) | 0; \n lo = (lo + Math.imul(al1, bl7)) | 0; \n mid = (mid + Math.imul(al1, bl7)) | 0; \n mid = (mid + Math.imul(ah1, bl7)) | 0; \n mid = (mid + Math.imul(ah1, bh7)) | 0; \n mid = (mid + Math.imul(ah1, bh7)) | 0; \n mid = (mid + Math.imul(ah1, bh7)) | 0; \n mid = (mid + Math.imul(ah1, bh7)) | 0; \n mid =
0;\n hi = (hi + Math.imul(ah1, bh7)) | 0;\n lo = (lo + Math.imul(al0, bl8)) | 0;\n mid = (mid + Math.imul(al0, bh8)) | 0;\n mid = (mid + Math.imul(ah0, bl8)) | 0;\n hi = (hi + Math.imul(ah0, bh8)) | 0;\n var w8 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) + (w8 >>> 26)) | 0;\n w8 &= 0x3ffffff; /* k = 9 */\n lo = Math.imul(al9, bl0);\n mid = Math.imul(al9, bh0);\n mid = (mid + Math.imul(ah9, bh0));\n lo = (lo + Math.imul(al8, bl1));\n mid = (mid + Math.imul(al8, bh1));\n lo = (lo + Math.imul(al7, bl2));\n mid = (mid + Math.imul(al7, bh2));\n lo = (lo + Math.imul(al6, bl3));\n mid = (mid + Math.imul(al6, bh3));\n lo = (lo + Math.imul(al5, bl4));\n mid = (mid + Math.imul(al5, bh4));\n lo = (lo + Math.imul(al4, bl5));\n mid = (mid + Math.imul(al4, bh5));\n lo = (lo + Math.imul(al3, bl6));\n mid = (mid + Math.imul(al3, bh6));\n lo = (lo + Math.imul(al2, bl7));\n mid = (mid + Math.imul(al2, bh7));\n lo = (lo + Math.imul(al1, bl8));\n mid = (mid + Math.imul(al1, bh8));\n lo = (lo + Math.imul(al0, bl9));\n mid = (mid + Math.imul(al0, bh9));\n hi = (hi + Math.imul(ah0, bh9));\n var w9 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) + (w9 >>> 26)) | 0;\n w9 &= 0x3ffffff; /* k = 10 */\n lo = Math.imul(al9, bl1);\n mid = (mid + Math.imul(al9, bh1));\n lo = (lo + Math.imul(al8, bl2));\n mid = (mid + Math.imul(al8, bh2));\n lo = (lo + Math.imul(al7, bl3));\n mid = (mid + Math.imul(al7, bh3));\n lo = (lo + Math.imul(al6, bl4));\n mid = (mid + Math.imul(al6, bh4));\n lo = (lo + Math.imul(al5, bl5));\n mid = (mid + Math.imul(al5, bh5));\n lo = (lo + Math.imul(al4, bl6));\n mid = (mid + Math.imul(al4, bh6));\n lo = (lo + Math.imul(al3, bl7));\n mid = (mid + Math.imul(al3, bh7));\n lo = (lo + Math.imul(al2, bl8));\n mid = (mid + Math.imul(al2, bh8));\n lo = (lo + Math.imul(al1, bl9));\n mid = (mid + Math.imul(al1, bh9));\n lo = (lo + Math.imul(al0, bl10));\n mid = (mid + Math.imul(al0, bh10));\n hi = (hi + Math.imul(ah0, bh10));\n var w10 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) + (w10 >>> 26)) | 0;\n w10 &= 0x3ffffff; /* k = 11 */\n lo = Math.imul(al9, bl2);\n mid = (mid + Math.imul(al9, bh2));\n lo = (lo + Math.imul(al8, bl3));\n mid = (mid + Math.imul(al8, bh3));\n lo = (lo + Math.imul(al7, bl4));\n mid = (mid + Math.imul(al7, bh4));\n lo = (lo + Math.imul(al6, bl5));\n mid = (mid + Math.imul(al6, bh5));\n lo = (lo + Math.imul(al5, bl6));\n mid = (mid + Math.imul(al5, bh6));\n lo = (lo + Math.imul(al4, bl7));\n mid = (mid + Math.imul(al4, bh7));\n lo = (lo + Math.imul(al3, bl8));\n mid = (mid + Math.imul(al3, bh8));\n lo = (lo + Math.imul(al2, bl9));\n mid = (mid + Math.imul(al2, bh9));\n lo = (lo + Math.imul(al1, bl10));\n mid = (mid + Math.imul(al1, bh10));\n lo = (lo + Math.imul(al0, bl11));\n mid = (mid + Math.imul(al0, bh11));\n hi = (hi + Math.imul(ah0, bh11));\n var w11 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) + (w11 >>> 26)) | 0;\n w11 &= 0x3ffffff; /* k = 12 */
 lo = Math.imul(al9, bl3);\n mid = Math.imul(al9, bh3);\n lo = (lo + Math.imul(al8, bl4));\n mid = (mid + Math.imul(al8, bh4));\n lo = (lo + Math.imul(al7, bl5));\n mid = (mid + Math.imul(al7, bh5));\n lo = (lo + Math.imul(al6, bl6));\n mid = (mid + Math.imul(al6, bh6));\n lo = (lo + Math.imul(al5, bl7));\n mid = (mid + Math.imul(al5, bh7));\n lo = (lo + Math.imul(al4, bl8));\n mid = (mid + Math.imul(al4, bh8));\n lo = (lo + Math.imul(al3, bl9));\n mid = (mid + Math.imul(al3, bh9));\n lo = (lo + Math.imul(al2, bl10));\n mid = (mid + Math.imul(al2, bh10));\n lo = (lo + Math.imul(al1, bl11));\n mid = (mid + Math.imul(al1, bh11));

(lo + Math.imul(al7, bl5)) | 0;\n mid = (mid + Math.imul(al7, bh5)) | 0;\n mid = (mid + Math.imul(ah7, bl5)) |
0;\n hi = (hi + Math.imul(ah7, bh5)) | 0;\n lo = (lo + Math.imul(al6, bl6)) | 0;\n mid = (mid + Math.imul(al6,
bh6)) | 0;\n mid = (mid + Math.imul(ah6, bl6)) | 0;\n hi = (hi + Math.imul(ah6, bh6)) | 0;\n lo = (lo +
Math.imul(al5, bl7)) | 0;\n mid = (mid + Math.imul(al5, bh7)) | 0;\n mid = (mid + Math.imul(ah5, bl7)) | 0;\n hi
= (hi + Math.imul(ah5, bh7)) | 0;\n lo = (lo + Math.imul(al4, bl8)) | 0;\n mid = (mid + Math.imul(al4, bh8)) | 0;\n
mid = (mid + Math.imul(ah4, bl8)) | 0;\n hi = (hi + Math.imul(ah4, bh8)) | 0;\n lo = (lo + Math.imul(al3, bl9)) |
0;\n mid = (mid + Math.imul(al3, bh9)) | 0;\n mid = (mid + Math.imul(ah3, bl9)) | 0;\n hi = (hi +
Math.imul(ah3, bh9)) | 0;\n var w12 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) |
0) + (w12 >>> 26)) | 0;\n w12 &= 0x3ffffff;\n /* k = 13 */\n lo = Math.imul(al9, bl4);\n mid =
Math.imul(al9, bh4);\n mid = (mid + Math.imul(ah9, bl4)) | 0;\n hi = Math.imul(ah9, bh4);\n lo = (lo +
Math.imul(al8, bl5)) | 0;\n mid = (mid + Math.imul(al8, bh5)) | 0;\n mid = (mid + Math.imul(ah8, bl5)) | 0;\n hi
= (hi + Math.imul(ah8, bh5)) | 0;\n lo = (lo + Math.imul(al7, bl6)) | 0;\n mid = (mid + Math.imul(al7, bh6)) | 0;\n
mid = (mid + Math.imul(ah7, bl6)) | 0;\n hi = (hi + Math.imul(ah7, bh6)) | 0;\n lo = (lo + Math.imul(al6, bl7)) |
0;\n mid = (mid + Math.imul(al6, bh7)) | 0;\n mid = (mid + Math.imul(ah6, bl7)) | 0;\n hi = (hi +
Math.imul(ah6, bh7)) | 0;\n lo = (lo + Math.imul(al5, bl8)) | 0;\n mid = (mid + Math.imul(al5, bh8)) | 0;\n mid
= (mid + Math.imul(ah5, bl8)) | 0;\n hi = (hi + Math.imul(ah5, bh8)) | 0;\n lo = (lo + Math.imul(al4, bl9)) | 0;\n
mid = (mid + Math.imul(al4, bh9)) | 0;\n mid = (mid + Math.imul(ah4, bl9)) | 0;\n hi = (hi + Math.imul(ah4,
bh9)) | 0;\n var w13 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) + (w13 >>>
26)) | 0;\n w13 &= 0x3ffffff;\n /* k = 14 */\n lo = Math.imul(al9, bl5);\n mid = Math.imul(al9, bh5);\n mid
= (mid + Math.imul(ah9, bl5)) | 0;\n hi = Math.imul(ah9, bh5);\n lo = (lo + Math.imul(al8, bl6)) | 0;\n mid =
(mid + Math.imul(al8, bh6)) | 0;\n mid = (mid + Math.imul(ah8, bl6)) | 0;\n hi = (hi + Math.imul(ah8, bh6)) | 0;\n
lo = (lo + Math.imul(al7, bl7)) | 0;\n mid = (mid + Math.imul(al7, bh7)) | 0;\n mid = (mid + Math.imul(ah7,
bl7)) | 0;\n hi = (hi + Math.imul(ah7, bh7)) | 0;\n lo = (lo + Math.imul(al6, bl8)) | 0;\n mid = (mid +
Math.imul(al6, bh8)) | 0;\n mid = (mid + Math.imul(ah6, bl8)) | 0;\n hi = (hi + Math.imul(ah6, bh8)) | 0;\n lo =
(lo + Math.imul(al5, bl9)) | 0;\n mid = (mid + Math.imul(al5, bh9)) | 0;\n mid = (mid + Math.imul(ah5, bl9)) |
0;\n hi = (hi + Math.imul(ah5, bh9)) | 0;\n var w14 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi +
(mid >>> 13)) | 0) + (w14 >>> 26)) | 0;\n w14 &= 0x3ffffff;\n /* k = 15 */\n lo = Math.imul(al9, bl6);\n mid
= Math.imul(al9, bh6);\n mid = (mid + Math.imul(ah9, bl6)) | 0;\n hi = Math.imul(ah9, bh6);\n lo = (lo +
Math.imul(al8, bl7)) | 0;\n mid = (mid + Math.imul(al8, bh7)) | 0;\n mid = (mid + Math.imul(ah8, bl7)) | 0;\n hi
= (hi + Math.imul(ah8, bh7)) | 0;\n lo = (lo + Math.imul(al7, bl8)) | 0;\n mid = (mid + Math.imul(al7, bh8)) | 0;\n
mid = (mid + Math.imul(ah7, bl8)) | 0;\n hi = (hi + Math.imul(ah7, bh8)) | 0;\n lo = (lo + Math.imul(al6, bl9)) |
0;\n mid = (mid + Math.imul(al6, bh9)) | 0;\n mid = (mid + Math.imul(ah6, bl9)) | 0;\n hi = (hi +
Math.imul(ah6, bh9)) | 0;\n var w15 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) |
0) + (w15 >>> 26)) | 0;\n w15 &= 0x3ffffff;\n /* k = 16 */\n lo = Math.imul(al9, bl7);\n mid =
Math.imul(al9, bh7);\n mid = (mid + Math.imul(ah9, bl7)) | 0;\n hi = Math.imul(ah9, bh7);\n lo = (lo +
Math.imul(al8, bl8)) | 0;\n mid = (mid + Math.imul(al8, bh8)) | 0;\n mid = (mid + Math.imul(ah8, bl8)) | 0;\n hi
= (hi + Math.imul(ah8, bh8)) | 0;\n lo = (lo + Math.imul(al7, bl9)) | 0;\n mid = (mid + Math.imul(al7, bh9)) | 0;\n
mid = (mid + Math.imul(ah7, bl9)) | 0;\n hi = (hi + Math.imul(ah7, bh9)) | 0;\n var w16 = (((c + lo) | 0) + ((mid
& 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) + (w16 >>> 26)) | 0;\n w16 &= 0x3ffffff;\n /* k = 17 */\n
lo = Math.imul(al9, bl8);\n mid = Math.imul(al9, bh8);\n mid = (mid + Math.imul(ah9, bl8)) | 0;\n hi =
Math.imul(ah9, bh8);\n lo = (lo + Math.imul(al8, bl9)) | 0;\n mid = (mid + Math.imul(al8, bh9)) | 0;\n mid =
(mid + Math.imul(ah8, bl9)) | 0;\n hi = (hi + Math.imul(ah8, bh9)) | 0;\n var w17 = (((c + lo) | 0) + ((mid &
0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) + (w17 >>> 26)) | 0;\n w17 &= 0x3ffffff;\n /* k = 18 */\n
lo = Math.imul(al9, bl9);\n mid = Math.imul(al9, bh9);\n mid = (mid + Math.imul(ah9, bl9)) | 0;\n hi =
Math.imul(ah9, bh9);\n var w18 = (((c + lo) | 0) + ((mid & 0x1fff) << 13)) | 0;\n c = (((hi + (mid >>> 13)) | 0) +
(w18 >>> 26)) | 0;\n w18 &= 0x3ffffff;\n o[0] = w0;\n o[1] = w1;\n o[2] = w2;\n o[3] = w3;\n o[4] =

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Array(N);

var rmws = out.words;
var rmws.length = N;
this.convert13b(x.words, x.length, rmws, N);
this.convert13b(y.words, y.length, nws, N);
this.transform(rws, _ , rwst, iwst, N, rbt);
this.transform(nws, _, nrws, niwst, N, rbt);
for (var i = 0; i < N; i++) {
  var rx = rwst[i] * nrws[i] - iwst[i] * niwst[i];
  var iwst[i] = rwst[i] * niwst[i] + iwst[i] * nrws[i];
  var rwst[i] = rx;
}
this.conjugate(rwst, iwst, N);
this.transform(rwst, iwst, rmws, _ , N, rbt);
this.conjugate(rmws, _ , N, rbt);
this.normalize13b(rmws, N);
this.out.negative = x.negative ^ y.negative;
out.length = x.length + y.length;
return out.return.strip();
}

// Multiply `this` by `num`.
BN.prototype.mul = function mul (num) {
  var out = new BN(null);
  out.words = new Array(this.length + num.length);
  return this.mulTo(num, out);
}

// Multiply employing FFT
BN.prototype.mulf = function mulf (num) {
  var out = new BN(null);
  out.words = new Array(this.length + num.length);
  return jumboMulTo(this, num, out);
}

// In-place Multiplication
BN.prototype.imul = function imul (num) {
  return this.clone().mulTo(num, this);
}

BN.prototype.imuln = function imuln (num) {
  assert(isTypeof(num === "number");
  assert(num < 0x4000000);
  // Carry
  var carry = 0;
  for (var i = 0; i < this.length; i++) {
    var w = (this.words[i] | 0) * num;
    var lo = (w & 0x3fffffff) + (carry & 0x3fffffff);
    carry >>= 26;
  }
  return this.words[i] = lo & 0x3fffffff;
  return this.words[i] = carry;
}

// Shift-right
BN.prototype.shrn = function shrn (bits) {
  return this.clone().ishrn(bits);
}

BN.prototype.ushrn = function ushrn (bits) {
  return this.clone().iushrn(bits);
}

BN.prototype.shln = function shln (bits) {
  return this.clone().ishln(bits);
}

BN.prototype.ushln = function ushln (bits) {
  return this.clone().iushln(bits);
}

BN.prototype.ishln = function ishln (bits, hint, extended) {
  if (hint) {
    hint = (hint - (hint % 26));
    s = (bits - hint) / 26;
    carry = Math.pow(2, s);
  }
  return this.imuln(carry);
}

BN.prototype.ishrn = function ishrn (bits, hint, extended) {
  if (hint) {
    hint = (hint - (hint % 26));
    s = (bits - hint) / 26;
    carry = Math.pow(2, s);
  }
  return this.imuln(carry);
}

BN.prototype.iushln = function iushln (bits) {
  return this.imuln(carry);
}

BN.prototype.iushrn = function iushrn (bits, hint, extended) {
  assert(this.negative === 0);
  return this.iushrn(bits, hint, extended);
}

BN.prototype.ishln = function ishln (bits) {
  if (this.length === 0) {
    this.words[0] = 0;
    this.length = 1;
  }
  var carry = 0;
  for (i = 0; i < this.length - 1; i++) {
    var carry = 0;
    for (j = i + 1; j < this.length; j++) {
      carry = carry + this.words[j];
    }
    this.words[i] = carry;
  }
  if (this.length > 0) {
    this.words[this.length - 1] = carry;
  }
  return this.strip();
}

BN.prototype.ishrn = function ishrn (bits) {
  return

mod only,\n //
to `div` to request div only, or be absent to\n //
request both div & mod\n //
2) `positive`
is true if unsigned mod is requested\n BN.prototype.divmod = function divmod (num, mode, positive) {\n
assert(!num.isZero());\n\n if (this.isZero()) {\n
return {\n
div: new BN(0),\n
mod: new BN(0)\n
};\n
}\n\n var div, mod, res;\n if (this.negative !== 0 && num.negative === 0) {\n
res = this.neg().divmod(num,
mode);\n\n
if (mode !== 'mod') {\n
div = res.div.neg();\n
}\n\n
if (mode !== 'div') {\n
mod =
res.mod.neg();\n
if (positive && mod.negative !== 0) {\n
mod.iadd(num);\n
}\n
}\n\n return {\n
div: div,\n
mod: mod\n
};\n }\n\n if (this.negative === 0 && num.negative !== 0) {\n
res =
this.divmod(num.neg(), mode);\n\n
if (mode !== 'mod') {\n
div = res.div.neg();\n
}\n\n
return {\n
div: div,\n
mod: res.mod\n
};\n }\n\n if ((this.negative & num.negative) !== 0) {\n
res =
this.neg().divmod(num.neg(), mode);\n\n if (mode !== 'div') {\n
mod = res.mod.neg();\n
if (positive &&
mod.negative !== 0) {\n
mod.isub(num);\n
}\n
}\n\n
return {\n
div: res.div,\n
mod: mod\n
};\n }\n\n // Both numbers are positive at this point\n\n // Strip both numbers to approximate shift value\n if
(num.length > this.length || this.cmp(num) < 0) {\n
return {\n
div: new BN(0),\n
mod: this\n
};\n
}\n\n // Very short reduction\n if (num.length === 1) {\n
if (mode === 'div') {\n
return {\n
div:
this.divn(num.words[0]),\n
mod: null\n
};\n
}\n\n
if (mode === 'mod') {\n
return {\n
div:
null,\n
mod: new BN(this.modn(num.words[0]))\n
};\n
}\n\n
return {\n
div:
this.divn(num.words[0]),\n
mod: new BN(this.modn(num.words[0]))\n
};\n }\n\n return
this._wordDiv(num, mode);\n };\n\n // Find `this` / `num`\n BN.prototype.div = function div (num) {\n return
this.divmod(num, 'div', false).div;\n };\n\n // Find `this` % `num`\n BN.prototype.mod = function mod (num) {\n
return this.divmod(num, 'mod', false).mod;\n };\n\n BN.prototype.umod = function umod (num) {\n return
this.divmod(num, 'mod', true).mod;\n };\n\n // Find Round(`this` / `num`)\n BN.prototype.divRound = function
divRound (num) {\n var dm = this.divmod(num);\n\n // Fast case - exact division\n if (dm.mod.isZero()) return
dm.div;\n\n var mod = dm.div.negative !== 0 ? dm.mod.isub(num) : dm.mod;\n\n var half = num.ushrn(1);\n
var r2 = num.andln(1);\n var cmp = mod.cmp(half);\n\n // Round down\n if (cmp < 0 || r2 === 1 && cmp ===
0) return dm.div;\n\n // Round up\n return dm.div.negative !== 0 ? dm.div.isubn(1) : dm.div.iaddn(1);\n };\n\n
BN.prototype.modn = function modn (num) {\n assert(num <= 0x3ffffff);\n var p = (1 << 26) % num;\n\n var
acc = 0;\n for (var i = this.length - 1; i >= 0; i--) {\n
acc = (p * acc + (this.words[i] | 0)) % num;\n }\n\n
return acc;\n };\n\n // In-place division by number\n BN.prototype.idivn = function idivn (num) {\n assert(num
<= 0x3ffffff);\n\n var carry = 0;\n for (var i = this.length - 1; i >= 0; i--) {\n
var w = (this.words[i] | 0) + carry
* 0x4000000;\n
this.words[i] = (w / num) | 0;\n
carry = w % num;\n }\n\n return this.strip();\n };\n\n
BN.prototype.divn = function divn (num) {\n return this.clone().idivn(num);\n };\n\n BN.prototype.egcd =
function egcd (p) {\n assert(p.negative === 0);\n assert(!p.isZero());\n\n var x = this;\n var y = p.clone();\n\n
if (x.negative !== 0) {\n
x = x.umod(p);\n } else {\n
x = x.clone();\n }\n\n // A * x + B * y = x\n var A
= new BN(1);\n var B = new BN(0);\n\n // C * x + D * y = y\n var C = new BN(0);\n var D = new
BN(1);\n\n var g = 0;\n\n while (x.isEven() && y.isEven()) {\n
x.iushrn(1);\n
y.iushrn(1);\n
++g;\n
}\n\n var yp = y.clone();\n var xp = x.clone();\n\n while (!x.isZero()) {\n
for (var i = 0, im = 1; (x.words[0]
& im) === 0 && i < 26; ++i, im <<= 1);\n
if (i > 0) {\n
x.iushrn(i);\n
while (i-- > 0) {\n
if
(A.isOdd() || B.isOdd()) {\n
A.iadd(yp);\n
B.isub(xp);\n
}\n\n
A.iushrn(1);\n
B.iushrn(1);\n
}\n
}\n\n
for (var j = 0, jm = 1; (y.words[0] & jm) === 0 && j < 26; ++j, jm <<= 1);\n
if (j > 0) {\n
y.iushrn(j);\n
while (j-- > 0) {\n
if (C.isOdd() || D.isOdd()) {\n
C.iadd(yp);\n
D.isub(xp);\n
}\n\n
C.iushrn(1);\n
D.iushrn(1);\n
}\n
}\n\n
if (x.cmp(y) >= 0) {\n
x.isub(y);\n
A.isub(C);\n
B.isub(D);\n
} else {\n
y.isub(x);\n
C.isub(A);\n
D.isub(B);\n
}\n }\n\n return {\n
a: C,\n
b: D,\n
gcd: y.iushln(g)\n };\n };\n\n // This is reduced incarnation of the
binary EEA\n // above, designated to invert members of the\n // _prime_ fields F(p) at a maximal speed\n
BN.prototype._invmp = function _invmp (p) {\n assert(p.negative === 0);\n assert(!p.isZero());\n\n var a =
this;\n var b = p.clone();\n\n if (a.negative !== 0) {\n
a = a.umod(p);\n } else {\n
a = a.clone();\n }\n\n
var x1 = new BN(1);\n var x2 = new BN(0);\n\n var delta = b.clone();\n\n while (a.cmpn(1) > 0 && b.cmpn(1)
> 0) {\n
for (var i = 0, im = 1; (a.words[0] & im) === 0 && i < 26; ++i, im <<= 1);\n
if (i > 0) {\n

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var bit = 0;
while (i >= 0; i--) {
    var w = this.words[i] | 0;
    w += carry;
    carry = w >>> 26;
    w &= 0x3ffffff;
}

if (carry !== 0) {
    this.words[i] = carry;
    this.length++;
}

return this;
}
Red.prototype.pow = function pow (a, num) {
    if (num.isZero()) return new BN(1).toRed(this);
    if (num.cmp(1) === 0) return a.clone();

    var windowSize = 4;
    var wnd = new Array(1 << windowSize);

    if (windowSize > num.length) return a;

    var i, tmp, m, c, t, r, inv = a._invmp(this.m);

    for (i = 0; i < number.length; i++) {
        tmp = tmp.redSqr();
    }
    assert(i < m);
    var b = this.pow(c, new BN(1).iushln(m - i - 1));

    return r;
};

Red.prototype.invm = function invm (a) {
    var inv = a._invmp(this.m);
    if (inv.negative !== 0) {
      return this.imod(inv).redNeg();
    } else {
      return this.imod(inv);
    }
}

Red.prototype.inv = function inv (a) {
    var inv = a._invmp(this.m);
    if (inv.negative !== 0) {
      return this.imod(inv).redNeg();
    } else {
      return this.imod(inv);
    }
}

Red.prototype.sqrt = function sqrt (a) {
    if (a.isZero()) return a.clone();

    var mod3 = this.m.andln(3);
    //
    // Fast case
    if (mod3 === 3) {
      var pow = this.m.add(new BN(1)).iushrn(2);
      return this.pow(a, pow);
    } else {
      var res = a.iadd(b);
      if (res.cmp(this.m) >= 0) {
        res.isub(this.m);
      }
      return res;
    }
}

Red.prototype.sqr = function sqr (a) {
    return this.mul(a, a);
}

Red.prototype.imul = function imul (a, b) {
    return this.imod(a.mul(b));
}

Red.prototype.isqr = function isqr (a) {
    return this._verify2(a, b);
    return this.imod(a.imul(b));
}

Red.prototype.mul = function mul (a, b) {
    this._verify2(a, b);

    var res = a.mul(b);
    if (res.cmpn(0) < 0) {
      res.iadd(this.m);
    }
    return res._forceRed(this);
}

Red.prototype.shl = function shl (a, num) {
    this._verify1(a);

    var res = a.shl(b);
    if (res.cmpn(0) < 0) {
      res.iadd(this.m);
    }
    return res._forceRed(this);
}

Red.prototype.isub = function isub (a, b) {
    this._verify2(a, b);

    var res = a.isub(b);
    if (res.cmpn(0) < 0) {
      res.iadd(this.m);
    }
    return res._forceRed(this);
}

Red.prototype.sub = function sub (a, b) {
    this._verify2(a, b);

    var res = a.sub(b);
    if (res.cmpn(0) < 0) {
      res.iadd(this.m);
    }
    return res._forceRed(this);
}

function iadd (a, b) {
    this._verify2(a, b);

    var res = a.iadd(b);
    if (res.cmp(this.m) >= 0) {
      res.isub(this.m);
    }
    return res._forceRed(this);
}

Red.prototype._verify2 = function _verify2 (a, b) {
    assert(a.red && b.red, 'red works only with red numbers');
    assert((a.negative | b.negative) === 0, 'red works only with positives');
};

Red.prototype._verify1 = function _verify1 (a) {
    assert(a.negative === 0, 'red works only with positives');
}

Red.prototype.imod = function imod (a) {
    if (this.prime) return this.prime.ireduce(a)._forceRed(this);
    return a.umod(this.m)._forceRed(this);
}

Red.prototype.neg = function neg (a) {
    if (a.isZero()) {
      return a.clone();
    }

    return this.m.sub(a)._forceRed(this);
}

Red.prototype.imulK = function imulK (num) {
    //
    // Fast case
    if (num.cmpn(1) === 0) return a.clone();

    var windowSize = 4;
    var wnd = new Array(1 << windowSize);

    if (windowSize > num.length) return a;

    var i, tmp, m, c, t, r, inv = a._invmp(this.m);

    for (i = 0; i < number.length; i++) {
        tmp = tmp.redSqr();
    }
    assert(i < m);
    var b = this.pow(c, new BN(1).iushln(m - i - 1));

    return r;
}
wmd[0] = new BN(1).toRed(this);\n wmd[1] = a;\n for (var i = 2; i < wmd.length; i++) {\n    wmd[i] =
        this.mul(wmd[i - 1], a)\n    }\n    var res = wmd[0];\n    var current = 0;\n    var currentLen = 0;\n    var start =
        num.bitLength() % 26;\n    var shift = 0;\n    for (i = num.bitLength() - 1; i > 0; i--) {\n        var word = num.words[i];\n        for (j = start - 1; j < 0; j--){\n            var bit = (word >> j) & 1;\n            if (res !== wmd[0]) {\n                res = this.sqr(res);\n            }\n            if (bit === 0 & current === 0) {\n                currentLen = 0;\n                continue;\n            }\n            res = this.sqr(res);\n            var bit = current <= 1;\n        }\n        current += bit;\n        currentLen += \n    }\n    if (currentLen !== windowSize & (i !== 0 || j !== 0)) continue;\n    res = this.m.mul(res, wmd[currentLen]);\n    res = this.imod(res);\n    return res;\n}
cb(predicate, context);
    _.each(obj, function(value, index, list) {
      if (predicate(value, index, list))
        {...}
    });

  _.filter = _.select = function(obj, predicate, context) {
    var results = [];
    predicate = cb(predicate, context);
    var keys = !isArrayLike(obj) && _.keys(obj),
        length = (keys || obj).length,
        index = 0,
        length = length || 0;
    for (var i = 0; i < length; i++) {
      var source = keys ? keys[i] : i;
      results[i] = predicate(obj[source], source, obj);
    }
    return results;
  };

  // Return all the elements that pass a truth test.
  // The cornerstone, an `each` implementation, aka `forEach`.
  // Handles raw objects in addition to array-likes.
  _.each = _.forEach = function(obj, iteratee, context) {
    iteratee = optimizeCb(iteratee, context);
    var i, length;
    if (isArrayLike(obj)) {
      for (i = 0, length = obj.length; i < length; i++) {
        iteratee(obj[i], i, obj);
      }
    } else {
      var keys = _.keys(obj),
          length = keys.length,
          index = 0;
      for (; index < length; index++) {
        var value = keys[index],
            results = Array(length);
        for (var i = 0; i < length; i++) {
          results[i] = iteratee(obj[value], value, obj);
        }
      }
    }
    return obj;
  };

  // The right-associative version of reduce, also known
  // as `foldl`.
  _.reduce = _.foldl = _.inject = createReduce(1);

  // The left-associative version of reduce, also known
  // as `foldr`.
  _.reduceRight = _.foldr = createReduce(-1);

  // The cornerstone, an `each` implementation, aka `forEach`.
  // Handles raw objects in addition to array-likes.
  _.each = _.forEach = function(obj, iteratee, context) {
    iteratee = optimizeCb(iteratee, context);
    var i, length;
    if (isArrayLike(obj)) {
      for (i = 0, length = obj.length; i < length; i++) {
        iteratee(obj[i], i, obj);
      }
    } else {
      var keys = _.keys(obj),
          length = keys.length,
          index = 0;
      for (; index < length; index++) {
        var value = keys[index],
            results = Array(length);
        for (var i = 0; i < length; i++) {
          results[i] = iteratee(obj[value], value, obj);
        }
      }
    }
    return obj;
  };

  // The right-associative version of reduce, also known
  // as `foldl`.
  _.reduce = _.foldl = _.inject = createReduce(1);

  // The left-associative version of reduce, also known
  // as `foldr`.
  _.reduceRight = _.foldr = createReduce(-1);

  // The cornerstone, an `each` implementation, aka `forEach`.
  // Handles raw objects in addition to array-likes.
  _.each = _.forEach = function(obj, iteratee, context) {
    iteratee = optimizeCb(iteratee, context);
    var i, length;
    if (isArrayLike(obj)) {
      for (i = 0, length = obj.length; i < length; i++) {
        iteratee(obj[i], i, obj);
      }
    } else {
      var keys = _.keys(obj),
          length = keys.length,
          index = 0;
      for (; index < length; index++) {
        var value = keys[index],
            results = Array(length);
        for (var i = 0; i < length; i++) {
          results[i] = iteratee(obj[value], value, obj);
        }
      }
    }
    return obj;
  };

  // The right-associative version of reduce, also known
  // as `foldl`.
  _.reduce = _.foldl = _.inject = createReduce(1);

  // The left-associative version of reduce, also known
  // as `foldr`.
  _.reduceRight = _.foldr = createReduce(-1);

  // The cornerstone, an `each` implementation, aka `forEach`.
  // Handles raw objects in addition to array-likes.
  _.each = _.forEach = function(obj, iteratee, context) {
    iteratee = optimizeCb(iteratee, context);
    var i, length;
    if (isArrayLike(obj)) {
      for (i = 0, length = obj.length; i < length; i++) {
        iteratee(obj[i], i, obj);
      }
    } else {
      var keys = _.keys(obj),
          length = keys.length,
          index = 0;
      for (; index < length; index++) {
        var value = keys[index],
            results = Array(length);
        for (var i = 0; i < length; i++) {
          results[i] = iteratee(obj[value], value, obj);
        }
      }
    }
    return obj;
  };

  // The right-associative version of reduce, also known
  // as `foldl`.
  _.reduce = _.foldl = _.inject = createReduce(1);

  // The left-associative version of reduce, also known
  // as `foldr`.
  _.reduceRight = _.foldr = createReduce(-1);

  // The cornerstone, an `each` implementation, aka `forEach`.
  // Handles raw objects in addition to array-likes.
  _.each = _.forEach = function(obj, iteratee, context) {
    iteratee = optimizeCb(iteratee, context);
    var i, length;
    if (isArrayLike(obj)) {
      for (i = 0, length = obj.length; i < length; i++) {
        iteratee(obj[i], i, obj);
      }
    } else {
      var keys = _.keys(obj),
          length = keys.length,
          index = 0;
      for (; index < length; index++) {
        var value = keys[index],
            results = Array(length);
        for (var i = 0; i < length; i++) {
          results[i] = iteratee(obj[value], value, obj);
        }
      }
    }
    return obj;
  };

  // The right-associative version of reduce, also known
  // as `foldl`.
  _.reduce = _.foldl = _.inject = createReduce(1);

  // The left-associative version of reduce, also known
  // as `foldr`.
  _.reduceRight = _.foldr = createReduce(-1);
function() {
    return _.uniq(flatten(arguments, true, true));
  };

  // Produce an array that contains every item
  function iteratee(value, index, array) {
        if (!_.contains(seen, computed)) {
          seen.push(computed);
          result.push(value);
      if (isSorted) {
        if (!i || seen !== computed) result.push(value);
        seen = computed;
      } else if
      } else if (!strict) {
        output[idx++] = value;
      }
    }
    return output;
  };

  // Flatten out an array, either recursively (by default), or just one level.
  _.flatten = function(array, shallow) {
      var value = array[i],
          computed = iteratee ? iteratee(value, i, array) : _.identity;
      return flatten(value, shallow, strict, startIndex);
    }

  // Trim out all falsy values from an array.
  _.compact = function(array) {
    return _.filter(array, function(value) {
        return value;
    });
  };

  // Get the first element of an array. Passing `**n**` will return the first N
  // values in the array. Aliased as `head` and `take`.
  _.first = _.head = _.take = function(array, n, guard) {
    if (n == null || guard) return array[0];
    return _.initial(array, array.length - n);
  };

  // Get the last element of an array. Passing `**n**` will return all the values in
  // the array, excluding the last N
  _.last = function(array, n, guard) {
    if (n == null || guard) return array[array.length - 1];
    return _.rest(array, Math.max(0, array.length - (n == null || guard ? 1 : n)));
  };

  // Returns everything but the first entry of the array. Aliased as `tail` and
  // `drop`.
  _.rest = _.tail = _.drop = function(array, n, guard) {
    return slice.call(array, n == null || guard ? 1 : n);
  };

  // gets every other element and returns them in a new array.
  _.sample = function(array) {
      var output = [], idx = 0;
      for (var i = startIndex || 0, length = getLength(array); i < length; i++) {
        var value = array[i],
            computed = iteratee ? iteratee(value, i, array) : _.identity;
        output[idx++] = value;
      }
      return output;
    };

  // Partition the results of a predicate.
  _.partition = function(obj, predicate, context) {
    predicate = cb(predicate, context);
    var pass = [], fail = [];
    for (var key in obj) {
      if (key in obj) {
        if (predicate(value, key, obj) ? pass : fail)
push(value);
      }
    }
    return [pass, fail];
  };

  // Array Functions
  // ---------------

  // Groups the object's values by a criterion. Pass either a
  // string attribute to group by, or a function that returns the criterion.
  _.groupBy = function(function(result, value, key) {
    if (_has(result, key)) result[key].push(value); else result[key] = [value];
  });

  // Indexes the object's values by a criterion, similar to `groupBy`, but for
  // when you know that your index values will be unique.
  _.indexBy = function(result, value, key) {
    result[key] = value;
  };
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```javascript
// Generator function to create the findIndex and findLastIndex functions
function createPredicateIndexFinder(dir) {
  return function(array, predicate, context) {
    var index = dir > 0 ? 0 : array.length - 1;
    while (true) {
      if (index < 0 || index >= array.length) break;
      if (predicate(array[index], index, array)) return index;
      index += dir;
    }
    return -1;
  };
}

// Returns the first index on an array-like that passes a predicate test
_.findIndex = createPredicateIndexFinder(1); // Use a comparator function to figure out the smallest index at which an array should be inserted so as to maintain order. Uses binary search.
_.sortedIndex = function(array, obj, iteratee, context) {
  iteratee = cb(iteratee, context, 1);
  var low = 0, high = getLength(array);
  while (low < high) {
    var mid = Math.floor((low + high) / 2);
    if (iteratee(array[mid]) < value) low = mid + 1; else high = mid;
  }
  return low;
};

// Generator function to create the indexOf and lastIndexOf functions
function createPredicateIndexFinder(dir) {
  return function(array, predicate, context) {
    var index = dir > 0 ? 0 : array.length - 1;
    while (true) {
      if (index < 0 || index >= array.length) break;
      if (predicate(array[index], index, array)) return index;
      index += dir;
    }
    return -1;
  };
}

// Returns the first index on an array-like that passes a predicate test
_.findLastIndex = createPredicateIndexFinder(-1); // Use a comparator function to figure out the smallest index at which an array should be inserted so as to maintain order. Uses binary search.
_.sortedLastIndex = function(array, obj, iteratee, context) {
  iteratee = cb(iteratee, context, 1);
  var low = 0, high = getLength(array);
  while (low < high) {
    var mid = Math.floor((low + high) / 2);
    if (iteratee(array[mid]) < value) low = mid + 1; else high = mid;
  }
  return low;
};

// Generator function to create the indexOf and lastIndexOf functions
function createPredicateIndexFinder(dir) {
  return function(array, predicate, context) {
    var index = dir > 0 ? 0 : array.length - 1;
    while (true) {
      if (index < 0 || index >= array.length) break;
      if (predicate(array[index], index, array)) return index;
      index += dir;
    }
    return -1;
  };
}

// Returns the first index on an array-like that passes a predicate test
_.indexOf = createPredicateIndexFinder(1); // Use a comparator function to figure out the smallest index at which an array should be inserted so as to maintain order. Uses binary search.
_.sortedIndex = function(array, obj, iteratee, context) {
  iteratee = cb(iteratee, context, 1);
  var low = 0, high = getLength(array);
  while (low < high) {
    var mid = Math.floor((low + high) / 2);
    if (iteratee(array[mid]) < value) low = mid + 1; else high = mid;
  }
  return low;
};

// Generator function to create the indexOf and lastIndexOf functions
function createPredicateIndexFinder(dir) {
  return function(array, predicate, context) {
    var index = dir > 0 ? 0 : array.length - 1;
    while (true) {
      if (index < 0 || index >= array.length) break;
      if (predicate(array[index], index, array)) return index;
      index += dir;
    }
    return -1;
  };
}

// Returns the first index on an array-like that passes a predicate test
_.findLastIndex = createPredicateIndexFinder(-1); // Use a comparator function to figure out the smallest index at which an array should be inserted so as to maintain order. Uses binary search.
_.sortedLastIndex = function(array, obj, iteratee, context) {
  iteratee = cb(iteratee, context, 1);
  var low = 0, high = getLength(array);
  while (low < high) {
    var mid = Math.floor((low + high) / 2);
    if (iteratee(array[mid]) < value) low = mid + 1; else high = mid;
  }
  return low;
};
```

---

**ECMAScript 5**'s native `Function.bind` if `Array` is available. 
`_.bind` = function(func, context) {
  var self = func.prototype;
  var result = func.apply(self, args);
  if (typeof result !== 'function') return result;
  var self
  return self;
}
var i = start;
var result = args[start].apply(this, arguments);
while (i--) result = args[i].call(this, function (a function that is the composition of a list of functions, each
// consuming the return value of the function that
function (predicate) {
  return function () {
    return predicate.apply(this, arguments);
  }
}

// Returns a function that is the composition of a list of functions, each
// consuming the return value of the function that
// follows.
var compose = function () {
  var args = arguments;
  var start = args.length - 1;
  return function () {
    var i = start;
    var result = args[start].apply(this, arguments);
    while (i--) result = args[i].call(this,
b;
  };

  // Is a given array, string, or object empty?
  // An "empty" object has no enumerable own-

  // Perform a deep comparison to check if two objects are equal.
  _.isEqual = function(a, b) {
    return eq(a,

    // Remove the first object from the stack of traversed objects.
    aStack.pop();
    bStack.pop();
    return true;

    // The primary purpose of this method is to "tap into" a method chain, in order to perform operations on intermediate results within the chain.
    _tap = function(obj, interceptor) { return obj.return obj b;

    // Returns whether an object has a given set of `key:value` pairs.
    _isMatch = function(object, attrs) {

    var keys = _.keys(attrs), length = keys.length;
    if (object == null) return !length;
    var obj = Object(object);
    for (var i = 0; i < length; i++) {
      var key = keys[i];
      if (attrs[key] !== obj[key]) return false;
    }

    return true;
  }

  // Internal recursive comparison function for `isEqual`.
  var eq = function(a, b, aStack, bStack) { // Identical objects are equal. '0' === -0', but they aren't identical.
    // See the [Harmony 'egal' proposal](http://wiki.ecmascript.org/doku.php?id=harmony:egal).
    if (a === b) return a !== 0 || 1 / a === 1 / b;
    // A strict comparison is necessary because `null == undefined`.
    if (a == null || b == null) return a === b;
    // Unwrap any wrapped objects.
    if (a instanceof _) a = a._wrapped;
    if (b instanceof _) b = b._wrapped;
    // Compare '[[Class]]' names.
    var className = toString.call(a);
    if (ClassName !== toString.call(b)) return false;
    switch (className) {
      // Strings, numbers, regular expressions, dates, and booleans are compared by value.
      case '[object RegExp]': return RegExpTestRegExpExp;
      // RegExps are coerced to strings for comparison
      (Note: '' + /a/i === '/a/i')
      case '[object String]':
        // Primitives and their corresponding object wrappers are equivalent; thus, '\"5\"' is\n        // equivalent to 'new String('\"5\")'.
        return +a === +b;
      case '[object Number]':
        // NaN's are equivalent, but non-reflexive.
        // Object(NaN) is equivalent to NaN
        if (+a !== +a) return +b !== +b;
        // An 'egal' comparison is performed for other numeric values.
        return +a === +b;
      case '[object Boolean]':
        // Coerce dates and booleans to numeric primitive values.
        Dates are compared by their
        // millisecond representations. Note that invalid dates with millisecond representations are
        // of 'NaN' are not equivalent.
        return a + b
    var areArrays = className === '[object Array]';
    if (!areArrays) {
      if (typeof a != 'object' || typeof b != 'object') return false;
    }
    // Objects with different constructors are not equivalent, but 'Object' or 'Array' aren't
    // from different frames are.
    var aCtor = a.constructor, bCtor = b.constructor;
    if (aCtor !== bCtor &&
    // Assume equality for cyclic structures. The algorithm for detecting cyclic
    // structures is adapted from ES 5.1
    section 15.12.3, abstract operation 'JO'.
    // It's done here since we only need them for objects and arrays comparison.
    aStack = aStack || [];
    bStack = bStack || [];
    // Linear search. Performance is inversely proportional to the number
    of
    // unique nested structures.
    if (aStack[length] === a) return bStack[length] === b;
    // Add the first object to the stack of traversed objects.
    aStack.push(a);
    bStack.push(b);

    // recursively compare objects and arrays if (areArrays) {
    // Compare array lengths to determine if a deep comparison is
    // necessary.
    if (length != b.length) return false;

    // Deep compare the contents, ignoring non-numeric properties.
    while (length--) {
      if (!eq(a[length], b[length], aStack, bStack)) return false;
    }

    // Is a given array, string, or object empty?
    // An "empty" object has no enumerable own-
var _id = ++idCounter + "\n return prefix ? prefix + id : id;\n\n//

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//
```

super.apply(this, arguments) || this;

__extends(ConflatableMessage, _super);

function ConflatableMessage() {
    return _super !== null &&
    `Message`

* subclass should be created.

*/

var ConflatableMessage = (function (_super) {

conflated, but which have no state other than `type`.
 *

* If conflation of stateful messages is required, a
make use of this class.
 *

* This message class is useful for creating message instances which
automatically.
 *

* #### Notes
* Message conflation is an advanced topic. Most user code will not
*

* was successfully conflated and that message will not be enqueued.
 *
* If this method returns `false`, the other message will be enqueued
* for normal delivery.
 *
* Custom message types may reimplement this method. This message will already be enqueued and conflatable, and the given message will have
the same `type` and also be conflatable.
 *
* This method should merge the state of the other message into this
message as needed so that when this message is finally delivered
* to the handler, it receives the most up-to-date information.
 *
* If this method returns `true`, it signals that the other message
* was successfully conflated and that message will not be enqueued.
 *
* If this method returns `false`, the other message will be enqueued
* for normal delivery.
 *
* Custom message types may reimplement this method.
 *
* The default implementation always returns `false`.
 *
* # Message conflated
* @param other - A conflatable message of the same `type`.
 *
* @returns `true` if the message was
data

/* */

function (other) {
    return false;
}

get: function () {
    return false;
},

enumerable: true,

customizable: true

/* */

Conflate this message with another message of the same `type`.

* @param other - A conflatable message of the same `type`.

* @returns `true` if the message was successfully conflated, or `false` otherwise.

* # Message conflated

Message.conflate = function (other) {
    return false;
};

Object.defineProperty(exports, "__esModule", { value: true });
```

```
```javascript
```
```
enqueueMessage(handler, msg) {
    // Add the posted message to the queue.
    messageQueue.addLast({
        queue.
    });
    *
    * This will automatically schedule a run of the message loop.
    */
    function exceptionHandler(err);
}
/**
 * Add a message to the end of the message
invokeHandler(handler, msg) {
    try {
        handler.processMessage(msg);
    }
    catch (err)
    {*
        result = hook.messageHook(handler, msg);
    }
    catch (err) {
        if (typeof hook === 'function') {
            result = hook(handler, msg);
        }
        else
            result = true;
        return result;
    }
    /**
     * Invoke a message hook with the specified handler and message.
     * Returns the result of the hook, or 'true' if the hook throws.
     * Exceptions in the hook will be caught and logged.
     */
    function invokeHook(hook, handler, msg) {
        var ok = typeof cancelAnimationFrame === 'function';
        return ok ? cancelAnimationFrame : setImmediate;
    }
    var unschedule = (function () {
        return old;
    })();
    MessageLoop.setExceptionHandler = setExceptionHandler;
    /**
     * The queue of posted message pairs.
     */
    var messageQueue = new collections_1.LinkedList();
    /**
     * A set of message hook arrays which are pending cleanup.
     */
    var dirtySet = new Set();
    /**
     * A mapping of handler to array of installed message hooks.
     */
    var messageHooks = new WeakMap();
    /**
     * The id of the pending loop task animation frame.
     */
    var loopTaskID = 0;
    /**
     * A guard flag to prevent flush recursion.
     */
    var flushGuard = false;
    /**
     * The message loop exception handler.
     */
    var exceptionHandler = function (err) {
        console.error(err);
    };
    /**
     * A function to unschedule an event loop callback.
     */
    var unschedule = (function () {
        return old;
    })();
    MessageLoop.getExceptionHandler = getExceptionHandler;
    /**
     * A function to schedule an event loop callback.
     */
    var schedule = (function () {
        return old;
    })();
    MessageLoop.runMessageLoop();
}
/**
 * The message loop exception handler.
 */
MessageLoop.setExceptionHandler = setExceptionHandler;
/**
 * The current exception handler.
 */
MessageLoop.getExceptionHandler = getExceptionHandler;
/**
 * The id of the pending loop task animation frame.
 */
loopTaskID = 0;
/**
 * A guard flag to prevent flush recursion.
 */
flushGuard = false;
/**
 * A function to unschedule an event loop callback.
 */
unschedule(loopTaskID);
/**
 * Run the message loop within the recursion guard.
 */
unschedule(loopTaskID);
/*
 * @returns The current exception handler.
 */
MessageLoop.getExceptionHandler = getExceptionHandler;
/*
 * A mapping of handler to array of installed message hooks.
 */
var messageQueue = new collections_1.LinkedList();
/*
 * A set of message hook arrays which are pending cleanup.
 */
var dirtySet = new Set();
/*
 * The message loop exception handler.
 */
var exceptionHandler = function (err) {
    console.error(err);
};
/*
 * The id of the pending loop task animation frame.
 */
var loopTaskID = 0;
/*
 * A guard flag to prevent flush recursion.
 */
var flushGuard = false;
/*
 * A function to schedule an event loop callback.
 */
var unschedule = (function () {
    return old;
})();
MessageLoop.setExceptionHandler = setExceptionHandler;
/*
 * The queue of posted message pairs.
 */
var messageQueue = new collections_1.LinkedList();
/*
 * A mapping of handler to array of installed message hooks.
 */
var messageQueue = new collections_1.LinkedList();
/*
 * A set of message hook arrays which are pending cleanup.
 */
var dirtySet = new Set();
/*
 * The message loop exception handler.
 */
var exceptionHandler = function (err) {
    console.error(err);
};
/*
 * The id of the pending loop task animation frame.
 */
var loopTaskID = 0;
/*
 * A guard flag to prevent flush recursion.
 */
var flushGuard = false;
/*
 * A function to schedule an event loop callback.
 */
var unschedule = (function () {
    return old;
})();
MessageLoop.setExceptionHandler = setExceptionHandler;
/*
 * The current exception handler.
 */
MessageLoop.getExceptionHandler = getExceptionHandler;
/*
 * A mapping of handler to array of installed message hooks.
 */
var messageQueue = new collections_1.LinkedList();
/*
 * A set of message hook arrays which are pending cleanup.
 */
var dirtySet = new Set();
/*
 * The message loop exception handler.
 */
var exceptionHandler = function (err) {
    console.error(err);
};
/*
 * The id of the pending loop task animation frame.
 */
var loopTaskID = 0;
/*
 * A guard flag to prevent flush recursion.
 */
var flushGuard = false;
/*
 * A function to schedule an event loop callback.
 */
var unschedule = (function () {
    return old;
})();
MessageLoop.setExceptionHandler = setExceptionHandler;
/*
 * The current exception handler.
 */
MessageLoop.getExceptionHandler = getExceptionHandler;
/*
 * A mapping of handler to array of installed message hooks.
 */
var messageQueue = new collections_1.LinkedList();
/*
 * A set of message hook arrays which are pending cleanup.
 */
var dirtySet = new Set();
/*
 * The message loop exception handler.
 */
var exceptionHandler = function (err) {
    console.error(err);
};
/*
 * The id of the pending loop task animation frame.
 */
var loopTaskID = 0;
/*
 * A guard flag to prevent flush recursion.
 */
var flushGuard = false;
```javascript
class will typically be subclassed in order to create a useful
 * widget. However, it can be used directly to host

```
```javascript
var msg = new Widget.ChildMessage('child-removed', this);

Error('Invalid parent widget.');

if (this._parent && !this._parent.isDisposed) {
    return;
}

if (value && this.contains(value)) {
    throw new
}

set: function (value) {
    if (this._parent === value)
        return this._disposed;
    Object.defineProperty(Widget.prototype, "disposed", {
        enumerable: true,
        configurable: true,
        get: function () {
            return this._disposed
        }
    });
    // Remove or detach the widget if necessary.
    if (this.isAttached) {
        Widget.detach(this);
    }
    // Dispose of the widget layout.
    if (this._layout) {
        this._layout.dispose();
    }
}

get: function () {
    return this._parent;
}

set: function (value) {
    this._parent = value;
    if (this.isAttached) {
        Widget.attach(this);
    }
    // Set the disposed flag and emit the disposed signal.
    this.setFlag(Widget.Flag.IsDisposed);
    // Clear the extra data associated with the widget.
    signaling_1.Signal.clearData(this);
    messaging_1.MessageLoop.clearData(this);
    properties_1.AttachedProperty.clearData(this);
    Object.defineProperty(Widget.prototype, "disposed", {
        enumerable: true,
        configurable: true,
        get: function () {
            return this._disposed;
        }
    });
    Object.defineProperty(Widget.prototype, "isAttached", {
        enumerable: true,
        configurable: true,
        get: function () {
            return this.testFlag(Widget.Flag.IsAttached);
        }
    });
    Object.defineProperty(Widget.prototype, "isHidden", {
        enumerable: true,
        configurable: true,
        get: function () {
            return this.testFlag(Widget.Flag.IsHidden);
        }
    });
    Object.defineProperty(Widget.prototype, "isVisible", {
        enumerable: true,
        configurable: true,
        get: function () {
            return this.testFlag(Widget.Flag.IsAttached);
        }
    });
    Object.defineProperty(Widget.prototype, "owner", {
        enumerable: true,
        configurable: true,
        get: function () {
            return Private.titleProperty.get(this);
        }
    });
    Object.defineProperty(Widget.prototype, "title", {
        enumerable: true,
        configurable: true,
        get: function () {
            return Private.titleProperty.get(this);
        }
    });
    Object.defineProperty(Widget.prototype, "isVisible", {
        enumerable: true,
        configurable: true,
        get: function () {
            return this.testFlag(Widget.Flag.IsVisible);
        }
    });
    // Clear the extra data associated with the widget.
    this.parent = null;
    this._parent = null;
    this._disposed = new signaling_1.Signal(this);
    this._layout = null;
    this._flags = 0;
    this._parent = null;
    this._disposed = new signaling_1.Signal(this);
    this._layout = null;
    this._flags = 0,
    this._parent = null;
    this._disposed = new signaling_1.Signal(this);
    this._layout = null;
    this._flags = 0;
    this._parent = null;
    this._disposed = new signaling_1.Signal(this);
    this._layout = null;
    this._flags = 0;
    this._parent = null;
    this._disposed = new signaling_1.Signal(this);
    this._layout = null;
    this._flags = 0
```
* Post an `'activate-request` message to the widget.

* Post a `'fit-request` message to the widget.

* Post an `'update-request` message to the widget.

* Post an `'activate-request` message to the widget.

This is a simple convenience method for posting the message.

This is a simple convenience method for posting the message.

This is a simple convenience method for posting the message.

This is a simple convenience method for posting the message.

This is a simple convenience method for posting the message.

This is a simple convenience method for posting the message.
messaging_1.MessageLoop.postMessage(this, Widget.Msg.ActivateRequest);
    };
    /**
     * Send a `'close-request'` message to the widget.
     */
    Widget.prototype.close = function () {
        messaging_1.MessageLoop.sendMessage(this, Widget.Msg.CloseRequest);
    };
    /**
     * Show the widget and make it visible to its parent widget.
     */
    Widget.prototype.show = function () {
        if (!this.testFlag(Widget.Flag.IsHidden)) {
            return;
        }
        if (this.isAttached && (!this.parent || this.parent.isVisible)) {
            messaging_1.MessageLoop.sendMessage(this, Widget.Msg.BeforeShow);
        }
        this.clearFlag(Widget.Flag.IsHidden);
        this.removeClass('p-mod-hidden');
        if (this.isAttached && (!this.parent || this.parent.isVisible)) {
            messaging_1.MessageLoop.sendMessage(this, Widget.Msg.AfterShow);
        }
        if (this.parent) {
            var msg = new Widget.ChildMessage('child-shown', this);
            messaging_1.MessageLoop.sendMessage(this.parent, msg);
        }
    };
    /**
     * Hide the widget and make it hidden to its parent widget.
     */
    Widget.prototype.hide = function () {
        if (this.testFlag(Widget.Flag.IsHidden)) {
            return;
        }
        if (this.isAttached && (!this.parent || this.parent.isVisible)) {
            messaging_1.MessageLoop.sendMessage(this, Widget.Msg.BeforeHide);
        }
        this.setFlag(Widget.Flag.IsHidden);
        this.addClass('p-mod-hidden');
        if (this.isAttached && (!this.parent || this.parent.isVisible)) {
            messaging_1.MessageLoop.sendMessage(this, Widget.Msg.AfterHide);
        }
        if (this.parent) {
            var msg = new Widget.ChildMessage('child-hidden', this);
            messaging_1.MessageLoop.sendMessage(this.parent, msg);
        }
    };
    /**
     * Show or hide the widget according to a boolean value.
     *
     * @param hidden - `true` to hide the widget, or `false` to show it.
     */
    Widget.prototype setHidden = function (hidden) {
        if (hidden) {
            this.hide();
        } else {
            this.show();
        }
    };
    /**
     * Test whether the given widget flag is set.
     */
    Widget.prototype.testFlag = function (flag) {
        return (this._flags & flag) !== 0;
    };
    /**
     * Set the given widget flag.
     */
    Widget.prototype.setFlag = function (flag) {
        this._flags |= flag;
    };
    /**
     * Clear the given widget flag.
     */
    Widget.prototype.clearFlag = function (flag) {
        this._flags &= ~flag;
    };
    /**
     * Process a message sent to the widget.
     *
     * @param msg - The message sent to the widget.
     */
    Widget.prototype.processMessage = function (msg) {
        switch (msg.type) {
            case 'resize':
                this.notifyLayout(msg);
                this.onResize(msg);
                break;
            case 'update-request':
                this.notifyLayout(msg);
                this.onUpdateRequest(msg);
                break;
            case 'fit-request':
                this.notifyLayout(msg);
                this.onFitRequest(msg);
                break;
            case 'before-show':
                this.notifyLayout(msg);
                this.onBeforeShow(msg);
                break;
            case 'after-show':
                this.notifyLayout(msg);
                this.onAfterShow(msg);
                break;
            case 'before-hide':
                this.notifyLayout(msg);
                this.onBeforeHide(msg);
                break;
            case 'after-hide':
                this.notifyLayout(msg);
                this.onAfterHide(msg);
                break;
            case 'before-attach':
                this.notifyLayout(msg);
                this.onBeforeAttach(msg);
                break;
            case 'after-attach':
                if (!this.isHidden && (!this.parent || this.parent.isVisible)) {
                    this.setFlag(Widget.Flag.IsVisible);
                }
        }
    };
}
Open Source Used In Secure Workload 3.6.1.1  20085

```javascript
enum of widget bit flags.
*/
var Flag;
(function (Flag) {
    /**
     * The widget has been
[91x101]Widget;
/**
 * The namespace for the `Widget` class statics.
 */
(function (Widget) {
    /**
     * An
[91x116]Widget.prototype.onChildRemoved = function (msg) { };
    return Widget;
}());
exports.Widget =
```
### Notes

* This message is sent to a widget before it becomes visible.

* This message is not sent when the widget is being attached.

* This message is sent to a widget after it becomes visible.

* This message is not sent when the widget is being detached.

* This message is sent to a widget when its parent has changed.

* This message is sent to a widget after it is detached.

* This message is sent to a widget before it becomes not-visible.

* This message is not sent when the widget is being attached.

* This message is sent to a widget after it is attached.

* This message is sent to a widget before it is attached.

* This message is sent to a widget after it is detached.

* This message is sent to a widget when it becomes not-visible.

* This message is sent to a widget before it is detached.

* This message is sent to a widget after it is attached.

* This message is sent to a widget before it is detached.

* This message is sent to a widget after it is attached.

* This message is sent to a widget when it should close.

* This message should be dispatched to a widget when it should close.

* and remove itself from the widget hierarchy.

* A layout cannot be set on the widget.

* A layout should not be set on the widget.

* A layout should not be set on the widget.

* A layout cannot be set on the widget.

* A layout cannot be set on the widget.

* A layout cannot be set on the widget.

* A layout cannot be set on the widget.

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```javascript
/* */
function ChildMessage(type, child) {
  var _this = _super.call(this, type) || this;
  _this.child = child;
  return _this;
}

/* */
function ResizeMessage(width, height) {
  var _this = _super.call(this, 'resize') || this;
  _this.width = width;
  _this.height = height;
  return _this;
}

/* */
function attach(widget, host, ref) {
  if (ref === void 0) { ref = null; }
  if (widget.parent) {
    throw new Error('Cannot attach a child widget.');
  }
  if (!widget.isAttached || document.body.contains(widget.node)) {
    throw new Error('Widget is already attached.');
  }
  if (!document.body.contains(host)) {
    throw new Error('Host is not attached.');
  }
  messaging_1.MessageLoop.sendMessage(widget, Widget.Msg.BeforeAttach);
  host.insertBefore(widget.node, ref);
  messaging_1.MessageLoop.sendMessage(widget, Widget.Msg.AfterAttach);
}

/* */
function detach(widget) {
  if (widget.parent) {
    throw new Error('Cannot detach a child widget.');
  }
  if (!widget.isAttached || !document.body.contains(widget.node)) {
    throw new Error('Widget is not attached.');
  }
  messaging_1.MessageLoop.sendMessage(widget, Widget.Msg.BeforeDetach);
  widget.node.parentNode.removeChild(widget.node);
  messaging_1.MessageLoop.sendMessage(widget, Widget.Msg.AfterDetach);
}

/* */
function createNode(options) {
  return options.node || document.createElement('div');
}

/* */
function createNode(options) {
  var node = options.node || document.createElement('div');
  if (!node) {
    return null;
  }
  return node;
}

/* */
function createNode(options) {
  if (!options.node) {
    return null;
  }
  return options.node;
}

/* */
function createNode(options) {
  if (!options.node) {
    return null;
  }
  return options.node;
}

/* */
function createNode(options) {
  if (!options.node) {
    return null;
  }
  return options.node;
}

/* */
function createNode(options) {
  if (!options.node) {
    return null;
  }
  return options.node;
}

/* */
function createNode(options) {
  if (!options.node) {
    return null;
  }
  return options.node;
}

/* */
function createNode(options) {
  if (!options.node) {
    return null;
  }
  return options.node;
}
```

### Notes
- If a `thisArg` is provided when connecting a signal, that object is considered the receiver. Otherwise, the `slot` is sender or receiver.

```typescript
Signal.disconnectSender = disconnectSender;
/**
 * Remove all connections where the given object is the sender.
 *
 * @param sender - The sender object of interest.
 * @returns `true` if the connection succeeds, `false` otherwise.
 */
function disconnectSender(sender) {
    Signal.disconnectBetween(sender, receiver);
    };
    Signal.disconnectBetween = disconnectBetween;
    };
    Signal.disconnectReceiver = disconnectReceiver;
    /**
     * Remove all connections where the given object is the receiver.
     *
     * @param receiver - The receiver object of interest.
     * @returns `true` if the connection succeeds, `false` otherwise.
     */
    function disconnectReceiver(receiver) {
        Signal.disconnectBetween(receiver, sender);
        };
        Signal.disconnectBetween = disconnectBetween;
        };
        Signal.disconnectBetween = disconnectBetween;
        };
    /**
     * Disconnect a slot from the signal.
     *
     * @param slot - The slot to disconnect from the signal.
     */
    function disconnectSlot(slot) {
        Signal.disconnectBetween(slot, this);
    };
    Signal.disconnectBetween = disconnectBetween;
    };
    Signal.disconnectBetween = disconnectBetween;
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considered\r\n * the receiver.\r\n */\r\n function disconnectAll(object) {\r\n
Private.disconnectAll(object);\r\n }\r\n Signal.disconnectAll = disconnectAll;\r\n /**\r\n * Clear all signal
data associated with the given object.\r\n *\r\n * @param object - The object for which the data should be
cleared.\r\n *\r\n * #### Notes\r\n * This removes all signal connections and any other signal data\r\n *
associated with the object.\r\n */\r\n function clearData(object) {\r\n
Private.disconnectAll(object);\r\n
}\r\n Signal.clearData = clearData;\r\n /**\r\n * Get the signal exception handler.\r\n *\r\n * @returns
The current exception handler.\r\n *\r\n * #### Notes\r\n * The default exception handler is
`console.error`.\r\n */\r\n function getExceptionHandler() {\r\n
return Private.exceptionHandler;\r\n }\r\n
Signal.getExceptionHandler = getExceptionHandler;\r\n /**\r\n * Set the signal exception handler.\r\n *\r\n
* @param handler - The function to use as the exception handler.\r\n *\r\n * @returns The old exception
handler.\r\n *\r\n * #### Notes\r\n * The exception handler is invoked when a slot throws an exception.\r\n
*/\r\n function setExceptionHandler(handler) {\r\n
var old = Private.exceptionHandler;\r\n
Private.exceptionHandler = handler;\r\n
return old;\r\n }\r\n Signal.setExceptionHandler =
setExceptionHandler;\r\n})(Signal = exports.Signal || (exports.Signal = {}));\r\nexports.Signal = Signal;\r\n/**\r\n *
The namespace for the module implementation details.\r\n */\r\nvar Private;\r\n(function (Private) {\r\n /**\r\n *
The signal exception handler function.\r\n */\r\n Private.exceptionHandler = function (err) {\r\n
console.error(err);\r\n };\r\n /**\r\n * Connect a slot to a signal.\r\n *\r\n * @param signal - The signal of
interest.\r\n *\r\n * @param slot - The slot to invoke when the signal is emitted.\r\n *\r\n * @param
thisArg - The `this` context for the slot. If provided,\r\n * this must be a non-primitive object.\r\n *\r\n *
@returns `true` if the connection succeeds, `false` otherwise.\r\n */\r\n function connect(signal, slot, thisArg)
{\r\n
// Coerce a `null` `thisArg` to `undefined`.\r\n
thisArg = thisArg || undefined;\r\n
// Ensure the
sender's array of receivers is created.\r\n
var receivers = receiversForSender.get(signal.sender);\r\n
if
(!receivers) {\r\n
receivers = [];\r\n
receiversForSender.set(signal.sender, receivers);\r\n
}\r\n
// Bail if a matching connection already exists.\r\n
if (findConnection(receivers, signal, slot, thisArg)) {\r\n
return false;\r\n
}\r\n
// Choose the best object for the receiver.\r\n
var receiver = thisArg || slot;\r\n
// Ensure the receiver's array of senders is created.\r\n
var senders = sendersForReceiver.get(receiver);\r\n
if
(!senders) {\r\n
senders = [];\r\n
sendersForReceiver.set(receiver, senders);\r\n
}\r\n
// Create
a new connection and add it to the end of each array.\r\n
var connection = { signal: signal, slot: slot, thisArg:
thisArg };\r\n
receivers.push(connection);\r\n
senders.push(connection);\r\n
// Indicate a successful
connection.\r\n
return true;\r\n }\r\n Private.connect = connect;\r\n /**\r\n * Disconnect a slot from a
signal.\r\n *\r\n * @param signal - The signal of interest.\r\n *\r\n * @param slot - The slot to disconnect
from the signal.\r\n *\r\n * @param thisArg - The `this` context for the slot. If provided,\r\n * this must be a
non-primitive object.\r\n *\r\n * @returns `true` if the connection is removed, `false` otherwise.\r\n */\r\n
function disconnect(signal, slot, thisArg) {\r\n
// Coerce a `null` `thisArg` to `undefined`.\r\n
thisArg =
thisArg || undefined;\r\n
// Lookup the list of receivers, and bail if none exist.\r\n
var receivers =
receiversForSender.get(signal.sender);\r\n
if (!receivers || receivers.length === 0) {\r\n
return false;\r\n
}\r\n
// Bail if no matching connection exits.\r\n
var connection = findConnection(receivers, signal, slot,
thisArg);\r\n
if (!connection) {\r\n
return false;\r\n
}\r\n
// Choose the best object for the
receiver.\r\n
var receiver = thisArg || slot;\r\n
// Lookup the array of senders, which is now known to
exist.\r\n
var senders = sendersForReceiver.get(receiver);\r\n
// Clear the connection and schedule cleanup
of the arrays.\r\n
connection.signal = null;\r\n
scheduleCleanup(receivers);\r\n
scheduleCleanup(senders);\r\n
// Indicate a successful disconnection.\r\n
return true;\r\n }\r\n
Private.disconnect = disconnect;\r\n /**\r\n * Remove all connections between a sender and receiver.\r\n *\r\n
* @param sender - The sender object of interest.\r\n *\r\n * @param receiver - The receiver object of
interest.\r\n */\r\n function disconnectBetween(sender, receiver) {\r\n
// If there are no receivers, there is
nothing to do.\r\n
var receivers = receiversForSender.get(sender);\r\n
if (!receivers || receivers.length === 0)
{\r\n
return;\r\n
}\r\n
// If there are no senders, there is nothing to do.\r\n
var senders =
sendersForReceiver.get(receiver);\r\n
if (!senders || senders.length === 0) {\r\n
return;\r\n
}\r\n
//

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Clear each connection between the sender and receiver:

```javascript
function findConnection(connections, signal, slot, thisArg) {
    return requestAnimationFrame;
}
```

```javascript
function emit(signal, args) {
    var receivers = receiversForSender.get(signal.sender);
    if (receivers && receivers.length > 0) {
        algorithm_1.each(receivers, function (connection) {
            connection.signal = null;
            scheduleCleanup(senders);
        });
        // Clear each receiver connection.
        scheduleCleanup(receiversForSender.get(signal));
    }
}
```

```javascript
function disconnectSender(sender) {
    var senders = sendersForReceiver.get(sender);
    if (senders && senders.length > 0) {
        algorithm_1.each(senders, function (connection) {
            connection.signal = null;
            scheduleCleanup(senders);
        });
        // Clear each sender connection.
        scheduleCleanup(sendersForReceiver.get(sender));
    }
}
```

```javascript
function disconnectReceiver(receiver) {
    var receivers = receiversForSender.get(receiver);
    if (receivers && receivers.length > 0) {
        algorithm_1.each(receivers, function (connection) {
            connection.signal = null;
            scheduleCleanup(receivers);
        });
        // Clear each receiver connection.
        scheduleCleanup(receiversForSender.get(receiver));
    }
}
```

```javascript
function disconnectBetween = disconnectBetween(sender) {
    var receivers = receiversForSender.get(sender);
    if (receivers && receivers.length > 0) {
        algorithm_1.each(receivers, function (connection) {
            connection.signal = null;
            scheduleCleanup(receivers);
        });
        // Clear a cleanup of the receivers.
        scheduleCleanup(receiversForSender.get(sender));
    }
}
```

```javascript
Private.disconnectAll = disconnectAll;
```

---

For more information, please refer to the documentation available on the project's official website or its repository on GitHub.
algorithm_1.find(connections, function (connection) { return (connection.signal === signal &&\r\n
connection.slot === slot &&\r\n
connection.thisArg === thisArg); });\r\n }\r\n /**\r\n * Invoke a slot
with the given parameters.\r\n *\r\n * The connection is assumed to be valid.\r\n *\r\n * Exceptions in the
slot will be caught and logged.\r\n */\r\n function invokeSlot(connection, args) {\r\n
var signal =
connection.signal, slot = connection.slot, thisArg = connection.thisArg;\r\n
try {\r\n
slot.call(thisArg,
signal.sender, args);\r\n
}\r\n
catch (err) {\r\n
Private.exceptionHandler(err);\r\n
}\r\n }\r\n
/**\r\n * Schedule a cleanup of a connection array.\r\n *\r\n * This will add the array to the dirty set and
schedule a deferred\r\n * cleanup of the array contents. On cleanup, any connection with a\r\n * `null` signal
will be removed from the array.\r\n */\r\n function scheduleCleanup(array) {\r\n
if (dirtySet.size === 0)
{\r\n
schedule(cleanupDirtySet);\r\n
}\r\n
dirtySet.add(array);\r\n }\r\n /**\r\n * Cleanup the
connection lists in the dirty set.\r\n *\r\n * This function should only be invoked asynchronously, when the\r\n
* stack frame is guaranteed to not be on the path of user code.\r\n */\r\n function cleanupDirtySet() {\r\n
dirtySet.forEach(cleanupConnections);\r\n
dirtySet.clear();\r\n }\r\n /**\r\n * Cleanup the dirty
connections in a connections array.\r\n *\r\n * This will remove any connection with a `null` signal.\r\n *\r\n
* This function should only be invoked asynchronously, when the\r\n * stack frame is guaranteed to not be on
the path of user code.\r\n */\r\n function cleanupConnections(connections) {\r\n
algorithm_1.ArrayExt.removeAllWhere(connections, isDeadConnection);\r\n }\r\n /**\r\n * Test whether a
connection is dead.\r\n *\r\n * A dead connection has a `null` signal.\r\n */\r\n function
isDeadConnection(connection) {\r\n
return connection.signal === null;\r\n }\r\n})(Private || (Private =
{}));\r\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ../node_modules/@phosphor/signaling/lib/index.js\n//
module id = 11\n// module chunks = 0","/*!\n * jQuery JavaScript Library v3.2.1\n * https://jquery.com/\n *\n *
Includes Sizzle.js\n * https://sizzlejs.com/\n *\n * Copyright JS Foundation and other contributors\n * Released
under the MIT license\n * https://jquery.org/license\n *\n * Date: 2017-03-20T18:59Z\n */\n( function( global,
factory ) {\n\n\t\"use strict\";\n\n\tif ( typeof module === \"object\" && typeof module.exports === \"object\" )
{\n\n\t\t// For CommonJS and CommonJS-like environments where a proper `window`\n\t\t// is present, execute the
factory and get jQuery.\n\t\t// For environments that do not have a `window` with a `document`\n\t\t// (such as
Node.js), expose a factory as module.exports.\n\t\t// This accentuates the need for the creation of a real
`window`.\n\t\t// e.g. var jQuery = require(\"jquery\")(window);\n\t\t// See ticket #14549 for more
info.\n\t\tmodule.exports = global.document ?\n\t\t\tfactory( global, true ) :\n\t\t\tfunction( w ) {\n\t\t\t\tif (
!w.document ) {\n\t\t\t\t\tthrow new Error( \"jQuery requires a window with a document\" );\n\t\t\t\t}\n\t\t\t\treturn
factory( w );\n\t\t\t};\n\t} else {\n\t\tfactory( global );\n\t}\n\n// Pass this if window is not defined yet\n} )( typeof
window !== \"undefined\" ? window : this, function( window, noGlobal ) {\n\n// Edge <= 12 - 13+, Firefox <=18 45+, IE 10 - 11, Safari 5.1 - 9+, iOS 6 - 9.1\n// throw exceptions when non-strict code (e.g., ASP.NET 4.5) accesses
strict mode\n// arguments.callee.caller (trac-13335). But as of jQuery 3.0 (2016), strict mode should be common\n//
enough that all such attempts are guarded in a try block.\n\"use strict\";\n\nvar arr = [];\n\nvar document =
window.document;\n\nvar getProto = Object.getPrototypeOf;\n\nvar slice = arr.slice;\n\nvar concat =
arr.concat;\n\nvar push = arr.push;\n\nvar indexOf = arr.indexOf;\n\nvar class2type = {};\n\nvar toString =
class2type.toString;\n\nvar hasOwn = class2type.hasOwnProperty;\n\nvar fnToString = hasOwn.toString;\n\nvar
ObjectFunctionString = fnToString.call( Object );\n\nvar support = {};\n\n\n\n\tfunction DOMEval( code, doc )
{\n\t\tdoc = doc || document;\n\n\t\tvar script = doc.createElement( \"script\" );\n\n\t\tscript.text =
code;\n\t\tdoc.head.appendChild( script ).parentNode.removeChild( script );\n\t}\n/* global Symbol */\n// Defining
this global in .eslintrc.json would create a danger of using the global\n// unguarded in another place, it seems safer to
define global only for this module\n\n\n\nvar\n\tversion = \"3.2.1\",\n\n\t// Define a local copy of jQuery\n\tjQuery =
function( selector, context ) {\n\n\t\t// The jQuery object is actually just the init constructor 'enhanced'\n\t\t// Need
init if jQuery is called (just allow error to be thrown if not included)\n\t\treturn new jQuery.fn.init( selector, context
);\n\t},\n\n\t// Support: Android <=4.0 only\n\t// Make sure we trim BOM and NBSP\n\trtrim =
/^[\\s\\uFEFF\\xA0]+|[\\s\\uFEFF\\xA0]+$/g,\n\n\t// Matches dashed string for camelizing\n\trmsPrefix = /^-ms/,\n\trdashAlpha = /-([a-z])/g,\n\n\t// Used by jQuery.camelCase as callback to replace()\n\tfcamelCase = function(

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window.OPEN_SOURCE_USED_IN_SECURE_WORKLOAD = function() {

    // Function to extract open source used in secure workload
    function extractOpenSource() {
        // Code for extracting open source
    }

    // Function to display extracted open source
    function displayOpenSource() {
        // Code for displaying extracted open source
    }

    // Main function that combines both extraction and display
    function main() {
        extractOpenSource();
        displayOpenSource();
    }

    // Execute the main function
    main();
}

// Call the main function
extractOpenSource();

displayOpenSource();
markFunction(function(argument) {
	argument = +argument;
	return markFunction(function(seed, matches positionals
 * @param {Function} fn
 */
function createPositionalPseudo(fn) {
	return ...
}

/**
 * Returns a function to use in pseudos for value.
 
		} else if ("label" in elem) {
			return elem.disabled === disabled;
		}

		// Remaining elements
		// All such elements in a disabled fieldset
		//   https://html.spec.whatwg.org/multipage/forms.html#category-listed
		// Fields, option elements in a disabled fieldset
		//   https://html.spec.whatwg.org/multipage/forms.html#dom-fieldset-disabled
		not was inserted into the document first. Because of this, if the content that
	
can be disabled true for :disabled; false for :enabled */
function createDisabledPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return (name === "input" || name === "button") && elem.type === type;
};

/**
 * Adds the same handler for all of the specified attributes
 * @param {String} attrs Pipe-separated list of attributes
 * @param {Function} handler The method that will be applied
 */
function addHandle(attrs, handler) {
	var arr = attrs.split("|");
	var i = arr.length;

	while (i--)
	Expr.attrHandle[arr[i]] = handler;

	// Check if a node has a disABled attribute
	var isDisabled = function(elem) {
		var disabled = elem.nodeName.toLowerCase() === "fieldset";
		var el = elem;
		while (el)
			if (elem.disabled)
				disabled = true;
			else
				disabled = false;

		return disabled;
};

/**
 * Returns a function to use in pseudos for :enabled/:disabled
 * @param {Boolean} disabled
 */
function createInputPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "input" && elem.type === type;
};

/**
 * Returns a function to use in pseudos for buttons
 * @param {String} type
 */
function createButtonPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "button" && type === elem.type;
};

/**
 * Returns a function to use in pseudos for input types
 * @param {String} type
 */
function createTextFieldPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "input" && elem.type === type;
};

/**
 * Returns a function to use in pseudos for :positionals
 * @param {Function} fn
 */
function createPositionalPseudo(fn) {
	return function(argument) {
		argument = +argument;
		return markFunction(fn)(argument);
	};

/**
 * Adds the same handler for all of the specified attributes
 * @param {String} attrs Pipe-separated list of attributes
 * @param {Function} handler The method that will be applied
 */
function addHandle(attrs, handler) {
	var arr = attrs.split("|");
	var i = arr.length;

	while (i--)
	Expr.attrHandle[arr[i]] = handler;

	// Check if a node has a disABled attribute
	var isDisabled = function(elem) {
		var disabled = elem.nodeName.toLowerCase() === "fieldset";
		var el = elem;
		while (el)
			if (elem.disabled)
				disabled = true;
			else
				disabled = false;

		return disabled;
};

/**
 * Returns a function to use in pseudos for :enabled/:disabled
 * @param {Boolean} disabled
 */
function createInputPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "input" && elem.type === type;
};

/**
 * Returns a function to use in pseudos for buttons
 * @param {String} type
 */
function createButtonPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "button" && type === elem.type;
};

/**
 * Returns a function to use in pseudos for input types
 * @param {String} type
 */
function createTextFieldPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "input" && elem.type === type;
};

/**
 * Returns a function to use in pseudos for :enabled/:disabled
 * @param {Boolean} disabled
 */
function createInputPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "input" && elem.type === type;
};

/**
 * Returns a function to use in pseudos for buttons
 * @param {String} type
 */
function createButtonPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "button" && type === elem.type;
};

/**
 * Returns a function to use in pseudos for input types
 * @param {String} type
 */
function createTextFieldPseudo(type) {
	return function(elem) {
		var name = elem.nodeName.toLowerCase();
		return name === "input" && elem.type === type;
}
var j, matchIndexes = fn([], seed.length, argument); // Match elements found at the specified indexes

while (i--) { // Detects XML nodes

    if (seed[j = matches[j] = seed[j]] = documentElement)

    // Checks a node for validity as a Sizzle context

    if (elem, documentElement, return documentElement) {

    sets document-related variables once based on the current document

    } 

/**
 * Checks a node for validity as a Sizzle context
 * @param {Element|Object=} context
 * @returns {Element|Object|Boolean} The input node if acceptable, otherwise a falsy value
 */

function testContext( context ) {

	return context && typeof context.getElementsByTagName !== "undefined" && context;

}

// Expose support vars for convenience

support = Sizzle.support = {};

/**
 * Detects XML nodes
 * @param {Element|Object} elem
 * @returns {Boolean} True if elem is a non-HTML XML node
 */

isXML = Sizzle.isXML = function( elem ) {

	// documentElement is verified for cases where it doesn't yet exist

	var documentElement = elem.ownerDocument || elem.documentElement;

	return documentElement ? documentElement.nodeName !== "HTML" :

false;

/* Attributes
------------------------- */

// Support: IE<8
// Verify that getAttribute really returns attributes and not properties

support.attributes = assert(function( el ) {

	el.className = "i";

	return !el.getAttribute("className");

});

/* getElement(s)By*
---------------------------------------- */

// Check if getElementsByTagName("*") returns only elements

support.getElementsByTagName = assert(function( el ) {

	el.appendChild(document.createComment(""));

	return !el.getElementsByTagName("*").length;

});

// Support: IE<9
// Check if getElementById returns elements by name

support.getById = assert(function( el, id ) {

	el.id = expando;

	return !document.getElementsByName || !document.getElementsByName(expando).length;

});

// ID filter and find

if (support.getById)

{ // Support: IE 9 - 10 only

	Expr.filter["ID"] = function( id ) {

		var attrId = id.replace( runescape, funescape );

		return function( elem ) {

			var node = typeof elem.getAttributeNode !== "undefined" &&

			elem.getAttributeNode("id");

			node.value === attrId;

		};

	};

} else {

	Expr.filter["ID"] = function( id, context ) {

		return function( elem ) {

		
typeof context.getAttributeByld !== "undefined" &&

		
documentElement/InstructionNode["id"];

		

		
typeof elem.getAttributeNode !== "undefined" &&

		
elem.getAttributeNode("id");

		

		}

	};

}
...
skipped if there are no unmatched elements (i.e., `matchedCount` equals `i`), unless we didn't visit _any_ elements in the above loop because we have `unmatched` no element matches and no `seed`. Incrementing an initially-string "0" `i` allows `i` to remain a string only in that case, which will result in a "00" `matchedCount` that differs from `i` but is also _numerically zero_ (by set `i` := `matchedCount`)

```
while ( (matcher = setMatchers[j++]) ) {
  matcher( unmatched, setMatched, context, xml );
};
```

_reintegrate element matches to eliminate the need for sorting_ `matchedCount > 0`)

```
if ( bySet && i !== matchedCount ) {
  j = 0;
  while ( (matcher = setMatchers[j++]) ) {
    matcher( unmatched, setMatched, context,
     xml );
  }

  if ( seed ) {
    // Reintegrate element matches to eliminate the need for
    // sorting
    if ( matchedCount > 0 ) {
      (unmatched[i] || setMatched[i])
    }

    // Discard index placeholder values to get only actual matches
    setMatched = condense( setMatched );
  }

  // Add matches to results
  results.push.apply( results, setMatched );
}
```

* Override manipulation of globals by nested matches in `unmatched` (outermost)

```
Sizzle.compile = function( selector, match /* Internal Use Only */ ) {
  var i,
      setMatchers = [],
      elementMatchers = [],
      cached = compilerCache[ selector + " " ];

  if ( !cached ) {
    // Generate a function of recursive functions that can be used to check each element
    if ( !match ) {
      match = tokenize( selector );
    }
    i = match.length;
    while ( i-- ) {
      cached = matcherFromTokens( match[i] );
      if ( cached[ expando ] ) {
        setMatchers.push( cached );
      } else {
        elementMatchers.push( cached );
      }
    }

    // Cache the compiled function
    cached = compilerCache( selector,
      matcherFromGroupMatchers( elementMatchers, setMatchers ) );

    Save selector and tokenization
    return bySet ? markFunction( superMatcher ) :
    superMatcher;
}
```

* Try to minimize operations if there is only one selector in the list and no `seed`:

```
// One-time assignments
Open Source Used In Secure Workload 3.6.1.1 20106
```
14-35+\n// Always assume duplicates if they aren't passed to the comparison function\nsupport.detectDuplicates =
!!hasDuplicate;\n\n// Initialize against the default document\nsetDocument();\n\n// Support: Webkit<537.32 - Safari
6.0.3/Chrome 25 (fixed in Chrome 27)\n// Detached nodes confoundingly follow *each
other*\nsupport.sortDetached = assert(function( el ) {\n\t// Should return 1, but returns 4 (following)\n\treturn
el.compareDocumentPosition( document.createElement(\"fieldset\") ) & 1;\n});\n\n// Support: IE<8\n// Prevent
attribute/property \"interpolation\"\n// https://msdn.microsoft.com/en-us/library/ms536429%28VS.85%29.aspx\nif (
!assert(function( el ) {\n\tel.innerHTML = \"<a href='#'></a>\";\n\treturn el.firstChild.getAttribute(\"href\") ===
\"#\" ;\n}) ) {\n\taddHandle( \"type|href|height|width\", function( elem, name, isXML ) {\n\t\tif ( !isXML )
{\n\t\t\treturn elem.getAttribute( name, name.toLowerCase() === \"type\" ? 1 : 2 );\n\t\t}\n\t});\n}\n\n// Support:
IE<9\n// Use defaultValue in place of getAttribute(\"value\")\nif ( !support.attributes || !assert(function( el )
{\n\tel.innerHTML = \"<input/>\";\n\tel.firstChild.setAttribute( \"value\", \"\" );\n\treturn el.firstChild.getAttribute(
\"value\" ) === \"\";\n}) ) {\n\taddHandle( \"value\", function( elem, name, isXML ) {\n\t\tif ( !isXML &&
elem.nodeName.toLowerCase() === \"input\" ) {\n\t\t\treturn elem.defaultValue;\n\t\t}\n\t});\n}\n\n// Support:
IE<9\n// Use getAttributeNode to fetch booleans when getAttribute lies\nif ( !assert(function( el ) {\n\treturn
el.getAttribute(\"disabled\") == null;\n}) ) {\n\taddHandle( booleans, function( elem, name, isXML ) {\n\t\tvar
val;\n\t\tif ( !isXML ) {\n\t\t\treturn elem[ name ] === true ? name.toLowerCase() :\n\t\t\t\t\t(val =
elem.getAttributeNode( name )) && val.specified ?\n\t\t\t\t\tval.value :\n\t\t\t\tnull;\n\t\t}\n\t});\n}\n\nreturn
Sizzle;\n\n})( window );\n\n\n\njQuery.find = Sizzle;\njQuery.expr = Sizzle.selectors;\n\n//
Deprecated\njQuery.expr[ \":\" ] = jQuery.expr.pseudos;\njQuery.uniqueSort = jQuery.unique =
Sizzle.uniqueSort;\njQuery.text = Sizzle.getText;\njQuery.isXMLDoc = Sizzle.isXML;\njQuery.contains =
Sizzle.contains;\njQuery.escapeSelector = Sizzle.escape;\n\n\n\n\nvar dir = function( elem, dir, until ) {\n\tvar
matched = [],\n\t\ttruncate = until !== undefined;\n\n\twhile ( ( elem = elem[ dir ] ) && elem.nodeType !== 9 )
{\n\t\tif ( elem.nodeType === 1 ) {\n\t\t\tif ( truncate && jQuery( elem ).is( until ) )
{\n\t\t\t\tbreak;\n\t\t\t}\n\t\t\tmatched.push( elem );\n\t\t}\n\t}\n\treturn matched;\n};\n\n\nvar siblings = function( n,
elem ) {\n\tvar matched = [];\n\n\tfor ( ; n; n = n.nextSibling ) {\n\t\tif ( n.nodeType === 1 && n !== elem )
{\n\t\t\tmatched.push( n );\n\t\t}\n\t}\n\n\treturn matched;\n};\n\n\nvar rneedsContext =
jQuery.expr.match.needsContext;\n\n\n\nfunction nodeName( elem, name ) {\n\n return elem.nodeName &&
elem.nodeName.toLowerCase() === name.toLowerCase();\n\n};\nvar rsingleTag = ( /^<([az][^\\/\\0>:\\x20\\t\\r\\n\\f]*)[\\x20\\t\\r\\n\\f]*\\/?>(?:<\\/\\1>|)$/i );\n\n\n\nvar risSimple = /^.[^:#\\[\\.,]*$/;\n\n//
Implement the identical functionality for filter and not\nfunction winnow( elements, qualifier, not ) {\n\tif (
jQuery.isFunction( qualifier ) ) {\n\t\treturn jQuery.grep( elements, function( elem, i ) {\n\t\t\treturn !!qualifier.call(
elem, i, elem ) !== not;\n\t\t} );\n\t}\n\n\t// Single element\n\tif ( qualifier.nodeType ) {\n\t\treturn jQuery.grep(
elements, function( elem ) {\n\t\t\treturn ( elem === qualifier ) !== not;\n\t\t} );\n\t}\n\n\t// Arraylike of elements
(jQuery, arguments, Array)\n\tif ( typeof qualifier !== \"string\" ) {\n\t\treturn jQuery.grep( elements, function( elem
) {\n\t\t\treturn ( indexOf.call( qualifier, elem ) > -1 ) !== not;\n\t\t} );\n\t}\n\n\t// Simple selector that can be filtered
directly, removing non-Elements\n\tif ( risSimple.test( qualifier ) ) {\n\t\treturn jQuery.filter( qualifier, elements, not
);\n\t}\n\n\t// Complex selector, compare the two sets, removing non-Elements\n\tqualifier = jQuery.filter( qualifier,
elements );\n\treturn jQuery.grep( elements, function( elem ) {\n\t\treturn ( indexOf.call( qualifier, elem ) > -1 ) !==
not && elem.nodeType === 1;\n\t} );\n}\n\njQuery.filter = function( expr, elems, not ) {\n\tvar elem = elems[ 0
];\n\n\tif ( not ) {\n\t\texpr = \":not(\" + expr + \")\";\n\t}\n\n\tif ( elems.length === 1 && elem.nodeType === 1 )
{\n\t\treturn jQuery.find.matchesSelector( elem, expr ) ? [ elem ] : [];\n\t}\n\n\treturn jQuery.find.matches( expr,
jQuery.grep( elems, function( elem ) {\n\t\treturn elem.nodeType === 1;\n\t} ) );\n};\n\njQuery.fn.extend( {\n\tfind:
function( selector ) {\n\t\tvar i, ret,\n\t\t\tlen = this.length,\n\t\t\tself = this;\n\n\t\tif ( typeof selector !== \"string\" )
{\n\t\t\treturn this.pushStack( jQuery( selector ).filter( function() {\n\t\t\t\tfor ( i = 0; i < len; i++ ) {\n\t\t\t\t\tif (
jQuery.contains( self[ i ], this ) ) {\n\t\t\t\t\t\treturn true;\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t} ) );\n\t\t}\n\n\t\tret =
this.pushStack( [] );\n\n\t\tfor ( i = 0; i < len; i++ ) {\n\t\t\tjQuery.find( selector, self[ i ], ret );\n\t\t}\n\n\t\treturn len
> 1 ? jQuery.uniqueSort( ret ) : ret;\n\t},\n\tfilter: function( selector ) {\n\t\treturn this.pushStack( winnow( this,
selector || [], false ) );\n\t},\n\tnot: function( selector ) {\n\t\treturn this.pushStack( winnow( this, selector || [], true )

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2.3.3.3.1

// Support: Promises/A+ section

// https://promisesaplus.com/#point-57

// Re-resolve promises immediately to dodge false rejection from

// subsequent errors in

// Call an optional hook to record the stack, in case of exception

// since it's otherwise lost when execution goes async

if ( depth ) {

  process();
}

else {

  // Call an optional hook to record the stack, in case of exception

  // since it's otherwise lost when execution goes async

  if ( jQuery.Deferred.getStackHook ) {

    process.stackTrace = jQuery.Deferred.getStackHook();
  }

  window.setTimeout( process);
}

return jQuery.Deferred( function( newDefer ) {

  // Get a promise for this deferred

  // If obj is provided, the promise aspect is

  // Added list-specific methods

  // Add list-specific methods

  // Add list-specific methods

  // Handle

  // Handle

  // Handle

  // Handle

  // Make the deferred a

  // Call given func if any

  // All done!

});


// These usually indicate a programmer mistake during development,
// warn
about them ASAP rather than swallowing them by default.

```javascript
var rerrorNames = /^(Eval|Internal|Range|Reference|Syntax|Type|URI)Error$/;

jQuery.Deferred.exceptionHook = function( error, stack ) {
    // Support: IE 8 - 9 only
    if ( window.console ) {
        window.console.warn( "jQuery.Deferred exception: "+ error.message, error.stack, stack );
    }
};

jQuery.Deferred().readyException = function( error ) {
    if ( window.setTimeout ) {
        window.setTimeout( function() {
            throw error;
        }, 0 );
    }
};

jQuery.ready.then = function( fn ) {
    return access( document, fn, null, true, false, fn );
};

jQuery.fn.ready = function( fn ) {
    return access( this, fn, null, true, false, fn );
};

jQuery.ready = function( wait ) {
    if ( wait === true ? --jQuery.readyWait : jQuery.isReady ) {
        return;
    }

    if ( jQuery.isReady ) {
        return;
    }

    jQuery.isReady = true;

    if ( --jQuery.readyWait > 0 ) {
        return;
    }

    jQuery.readyList.resolveWith( document, [ jQuery ] );

    jQuery.readyState = "interactive";

    setTimeout( jQuery.ready );
};

jQuery.extend( {
    isReady: false,
    readyWait: 1,
    ready: function() {
        if ( jQuery.isReady || --jQuery.readyWait > 0 ) {
            return;
        }

        jQuery.isReady = true;

        jQuery.readyList.resolveWith( document, [ jQuery ] );
    }
} );
```

---

The deferred used on DOM ready:\n
- \n
- The ready event handler and self cleanup method:\n
  ```javascript
  function completed() {
    document.removeEventListener( "DOMContentLoaded", completed );
    window.removeEventListener( "load", completed );
  }
  ```

- The ready event\n
- The DOMContentLoaded event:

  ```javascript
  if ( document.readyState === "complete" ) {
    jQuery.ready();
  } else {
    document.addEventListener( "DOMContentLoaded", completed );
    window.addEventListener( "load", completed );
  }
  ```

- The multifunctional method to get and set values of a collection:\n
  ```javascript
  function access( elems, fn, key, value, chainable, emptyGet, raw ) {\n    var i = 0, len = elems.length, bulk = key == null;
    // Sets many values
    if ( jQuery.type( key ) === "object" ) {
      chainable = true;
      for ( i in key ) {
        access( elems, fn, i, key[ i ], true, emptyGet, raw );
      }
    // Sets one value
    } else if ( value !== undefined ) {
      chainable = true;
      if ( bulk ) {
        fn.call( elems, value );
        fn = null;
      // Bulk operations run against the entire set\n      } else if ( value != undefined ) {
        // We can accept data for non-element nodes in modern browsers,
        // but we should not, see #8335.
        // Always return an empty object.
        fn = function( owner ) {
          return emptyGet( owner );
        };
        acceptData = function( owner ) {
          return fn( owner, this.expando );
        };
        this.expando = jQuery.expando + Data.uid++;
        Data.uid = 1;
        Data.prototype = {\n          cache: function() {
            return emptyGet( owner );
          };
        };
        Any
```
value;\n\t},\n\tset: function( owner, data, value ) {\n\t\tvar prop,\n\t\t\tcache = this.cache( owner );\n\n\t\t// Handle: [
owner, key, value ] args\n\t\t// Always use camelCase key (gh-2257)\n\t\tif ( typeof data === \"string\" )
{\n\t\t\tcache[ jQuery.camelCase( data ) ] = value;\n\n\t\t// Handle: [ owner, { properties } ] args\n\t\t} else
{\n\n\t\t\t// Copy the properties one-by-one to the cache object\n\t\t\tfor ( prop in data ) {\n\t\t\t\tcache[
jQuery.camelCase( prop ) ] = data[ prop ];\n\t\t\t}\n\t\t}\n\t\treturn cache;\n\t},\n\tget: function( owner, key )
{\n\t\treturn key === undefined ?\n\t\t\tthis.cache( owner ) :\n\n\t\t\t// Always use camelCase key (gh2257)\n\t\t\towner[ this.expando ] && owner[ this.expando ][ jQuery.camelCase( key ) ];\n\t},\n\taccess: function(
owner, key, value ) {\n\n\t\t// In cases where either:\n\t\t//\n\t\t// 1. No key was specified\n\t\t// 2. A string key was
specified, but no value provided\n\t\t//\n\t\t// Take the \"read\" path and allow the get method to determine\n\t\t//
which value to return, respectively either:\n\t\t//\n\t\t// 1. The entire cache object\n\t\t// 2. The data stored at the
key\n\t\t//\n\t\tif ( key === undefined ||\n\t\t\t\t( ( key && typeof key === \"string\" ) && value === undefined ) )
{\n\n\t\t\treturn this.get( owner, key );\n\t\t}\n\n\t\t// When the key is not a string, or both a key and value\n\t\t// are
specified, set or extend (existing objects) with either:\n\t\t//\n\t\t// 1. An object of properties\n\t\t// 2. A key and
value\n\t\t//\n\t\tthis.set( owner, key, value );\n\n\t\t// Since the \"set\" path can have two possible entry points\n\t\t//
return the expected data based on which path was taken[*]\n\t\treturn value !== undefined ? value :
key;\n\t},\n\tremove: function( owner, key ) {\n\t\tvar i,\n\t\t\tcache = owner[ this.expando ];\n\n\t\tif ( cache ===
undefined ) {\n\t\t\treturn;\n\t\t}\n\n\t\tif ( key !== undefined ) {\n\n\t\t\t// Support array or space separated string of
keys\n\t\t\tif ( Array.isArray( key ) ) {\n\n\t\t\t\t// If key is an array of keys...\n\t\t\t\t// We always set camelCase
keys, so remove that.\n\t\t\t\tkey = key.map( jQuery.camelCase );\n\t\t\t} else {\n\t\t\t\tkey = jQuery.camelCase( key
);\n\n\t\t\t\t// If a key with the spaces exists, use it.\n\t\t\t\t// Otherwise, create an array by matching nonwhitespace\n\t\t\t\tkey = key in cache ?\n\t\t\t\t\t[ key ] :\n\t\t\t\t\t( key.match( rnothtmlwhite ) || [] );\n\t\t\t}\n\n\t\t\ti
= key.length;\n\n\t\t\twhile ( i-- ) {\n\t\t\t\tdelete cache[ key[ i ] ];\n\t\t\t}\n\t\t}\n\n\t\t// Remove the expando if
there's no more data\n\t\tif ( key === undefined || jQuery.isEmptyObject( cache ) ) {\n\n\t\t\t// Support: Chrome
<=35 - 45\n\t\t\t// Webkit & Blink performance suffers when deleting properties\n\t\t\t// from DOM nodes, so set to
undefined instead\n\t\t\t// https://bugs.chromium.org/p/chromium/issues/detail?id=378607 (bug restricted)\n\t\t\tif (
owner.nodeType ) {\n\t\t\t\towner[ this.expando ] = undefined;\n\t\t\t} else {\n\t\t\t\tdelete owner[ this.expando
];\n\t\t\t}\n\t\t}\n\t},\n\thasData: function( owner ) {\n\t\tvar cache = owner[ this.expando ];\n\t\treturn cache !==
undefined && !jQuery.isEmptyObject( cache );\n\t}\n};\nvar dataPriv = new Data();\n\nvar dataUser = new
Data();\n\n\n\n//\tImplementation Summary\n//\n//\t1. Enforce API surface and semantic compatibility with 1.9.x
branch\n//\t2. Improve the module's maintainability by reducing the storage\n//\t\tpaths to a single
mechanism.\n//\t3. Use the same single mechanism to support \"private\" and \"user\" data.\n//\t4. _Never_ expose
\"private\" data to user code (TODO: Drop _data, _removeData)\n//\t5. Avoid exposing implementation details on
user objects (eg. expando properties)\n//\t6. Provide a clear path for implementation upgrade to WeakMap in
2014\n\nvar rbrace = /^(?:\\{[\\w\\W]*\\}|\\[[\\w\\W]*\\])$/,\n\trmultiDash = /[A-Z]/g;\n\nfunction getData( data )
{\n\tif ( data === \"true\" ) {\n\t\treturn true;\n\t}\n\n\tif ( data === \"false\" ) {\n\t\treturn false;\n\t}\n\n\tif ( data
=== \"null\" ) {\n\t\treturn null;\n\t}\n\n\t// Only convert to a number if it doesn't change the string\n\tif ( data ===
+data + \"\" ) {\n\t\treturn +data;\n\t}\n\n\tif ( rbrace.test( data ) ) {\n\t\treturn JSON.parse( data );\n\t}\n\n\treturn
data;\n}\n\nfunction dataAttr( elem, key, data ) {\n\tvar name;\n\n\t// If nothing was found internally, try to fetch
any\n\t// data from the HTML5 data-* attribute\n\tif ( data === undefined && elem.nodeType === 1 ) {\n\t\tname =
\"data-\" + key.replace( rmultiDash, \"-$&\" ).toLowerCase();\n\t\tdata = elem.getAttribute( name );\n\n\t\tif ( typeof
data === \"string\" ) {\n\t\t\ttry {\n\t\t\t\tdata = getData( data );\n\t\t\t} catch ( e ) {}\n\n\t\t\t// Make sure we set the
data so it isn't changed later\n\t\t\tdataUser.set( elem, key, data );\n\t\t} else {\n\t\t\tdata =
undefined;\n\t\t}\n\t}\n\treturn data;\n}\n\njQuery.extend( {\n\thasData: function( elem ) {\n\t\treturn
dataUser.hasData( elem ) || dataPriv.hasData( elem );\n\t},\n\n\tdata: function( elem, name, data ) {\n\t\treturn
dataUser.access( elem, name, data );\n\t},\n\n\tremoveData: function( elem, name ) {\n\t\tdataUser.remove( elem,
name );\n\t},\n\n\t// TODO: Now that all calls to _data and _removeData have been replaced\n\t// with direct calls to
dataPriv methods, these can be deprecated.\n\t_data: function( elem, name, data ) {\n\t\treturn dataPriv.access( elem,
name, data );\n\t},\n\n\t_removeData: function( elem, name ) {\n\t\tdataPriv.remove( elem, name );\n\t}\n}

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jQuery.fn.extend( { 
  data: function( key, value ) {
    var i, name, data, elem = this[ 0 ];
    elem && elem.attributes; 
    // Gets all values
    function( key !== undefined ) {
      var ( this.length ) 
        dataUser.get( elem );
      return jQuery.camelCase( name, data[ name ] )
    } 
    return delete( this.data[ name ] )
    // Sets multiple values
    return function( key ) {
      var ( data !== undefined )
        dataPriv.set( elem, "hasDataAttr", true
    } 
    return jQuery.queue.get( elem, type, data );
  } 
}
});

jQuery.extend( {
  removeData: function( key ) {
    var data;
    if ( elem.nodeType === 1 && !dataPriv.get( elem, "hasDataAttrs" ) ) {
      return;
    } 
    // Attempts to "discover" the data
    dataUser.get( elem );
    if ( elem && elem.attributes;
    // Gets all values
    function( key !== undefined ) {
      var ( this.length ) 
        dataUser.get( elem );
      return jQuery.camelCase( name, data[ name ] )
    } 
    return delete( this.data[ name ] )
    // Sets multiple values
    return function( key ) {
      var ( data !== undefined )
        dataPriv.set( elem, "hasDataAttr", true
    } 
    return jQuery.queue.get( elem, type, data );
  } 
}
);
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```javascript
var rcheckableType = /^(?:checkbox|radio)$/i;

var rtagName = ( /<([a-z\[\]]+|([a-z\[\]]+[\w\d\']*:[\w\d\']*))/i);

var rscriptType = /^$|\/(?:java|ecma)script/i;

(rhtml = /<|&#?\w+;/);

buildFragment( elems, context, scripts, selection, ignored ) {
  var i = 0, l = elems.length;
  for ( ; i < l; i++ ) {
    elem = elems[ i ];
    if ( elem || elem === 0 ) {
      if ( jQuery.type( elem ) === "object" ) {
        jQuery.merge( nodes, elem.nodeType ? [ elem ] : elem );
      } else if ( !rhtml.test( elem ) ) {
        nodes.push( context.createTextNode( elem ) );
      } else {
        tmp = context.createDocumentFragment();
        tmp.innerHTML = wrap[ 1 ] + jQuery.htmlPrefilter( elem ) + wrap[ 2 ];
        while ( wrap[ 0 ]-- ) {
          tmp = tmp.lastChild;
        }
        jQuery.merge( nodes, tmp.childNodes );
        tmp = fragment.firstChild;
        tmp.textContent = "";
      }
    }
  }

  i = 0;
  while ( ( elem = nodes[ i++ ] ) ) {
    if ( selection && jQuery.inArray( elem, selection ) > -1 ) {
      if ( ignored ) {
        ignored.push( elem );
      }
      continue;
    }
    contains = jQuery.contains( elem.ownerDocument, elem );
    tmp = getAll( fragment.appendChild( context.createElement( "div" ) ), "script", "div" );
    Deserializate a standard representation (tag, elem) = [ elem ] : nodeType ? [ elem ] : nodeType = Convert non-html into a text node? 
    else if ( ( rhtml.test( elem ) ) ) {
      if ( !elem.nodeName ) {
        fragment.appendChild( context.createTextNode( elem ) );
      }
    }
  }

  return fragment;
}
```
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```javascript
// Add to the
						}
				}
			}

			if ( special.add ) {
				special.add.call( elem, handleObj );

				if ( elem.addEventListener ) {
					elem.addEventListener( type, eventHandle
```
element's handler list, delegates in front of the selector's list, and then `splice`() the handlers.

```javascript
if ( selector ) {
  handlers.splice( handlers.delegateCount++, 0, handleObj );
} else {
  handlers.push( handleObj );
}
```

We keep track of which events have ever been used, for event optimization:

```javascript
// Keep track of which events have ever been used, for event optimization
jQuery.event.global[type] = true;
```

Then, when you want to remove events, you can pass the event type, handler, selector, etc.:

```javascript
// Detach an event or set of events from an element
jQuery.event.remove( elem, types, [handler], [selector], [mappedTypes] )
```

This will remove matching events, first by namespace, then by handler:

```javascript
Remove matching events:
```

```javascript
if ( !type ) {
  for ( type in events ) {
    jQuery.event.remove( elem, type + types[ t ], handler, selector, true );
  }
```

And finally, it will remove the event from the data structure:

```javascript
delete events[ type ];
```

And let it bail if desired (special.preDispatch && special.preDispatch.call(this, event) === false):

```javascript
{\n  return
};
```

This is called `dispatch` function (nativeEvent) for native events, but for custom event objects, you need to call it:

```javascript
jQuery.event.fix( nativeEvent );
```

Then you have to call `jQuery.event.handlers` function to get the blocked events:

```javascript
jQuery.event.handlers.call( this, event, handlers );
```

And then you can call `[*]+` and `[::-]` namespace filters to match the namespace:

```javascript
if ( !event.rnamespace || event.rnamespace.test( handleObj.namespace ) ) {
```

And finally, you can call `apply( matched.elems, arguments[ i ] );` to dispatch the event:

```javascript
event.dispatch( event, event.data, [matched.elems], arguments[ i ] );
```

In this way, you can detach events from an element and keep track of which events have been used for optimization.

---

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function sync() {

    // Optionally wrap the element, set the classname, and set the textContent
    var wrapped = $(ele);
    wrapped.attr('class', class);
    wrapped.html(content);

    // Call the onBefore function if it is available
    if (onBefore) {
        onBefore(wrapped);
    }

    // Call the onTarget function if it is available
    if (onTarget) {
        onTarget(wrapped);
    }

    // Call the onAfter function if it is available
    if (onAfter) {
        onAfter(wrapped);
    }

    // Add the element to the list of used elements
    usedElements.push(wrapped);
}

// Use the sync function to create a list of elements
var elements = sync(elements);

// Call the onCompletion function with the list of used elements
if (onCompletion) {
    onCompletion(elements);
}
try {
  for ( ; i < l; i++ ) {
    elem = this[ i ] || {};

    // Remove element nodes and prevent memory leaks
    if ( elem.nodeType === 1 ) {
      jQuery.cleanData( getAll( elem, false ) );
      elem.innerHTML = value;
    }
  }
}

elem = 0;

if ( elem ) {
  this.empty().append( value );
}

replaceWith:
function() {
  ignored = [];
  Make the changes, replacing each non-ignored context element with
  the new content
  this.domManip( this, arguments, function( elem ) {
    jQuery.inArray( this, parentNode ) !== -1
  });
  jQuery( this ).replaceWith( elem );
}

// If using innerHTML throws an exception, use the fallback method
replaceWith:
function( elem ) {
  // Remove element nodes and prevent memory leaks
  if ( elem.nodeType === 1 ) {
    jQuery.cleanData( getAll( elem, false ) );
    elem.innerHTML = value;
  }
}

if ( elem ) {
  this.empty().append( value );
}
Use cssHook if it's there.

```javascript
if (result === "auto" ? 0 : result;
// Use .style if available and use plain properties where available.
set: function( tween ) {

// Use step hook for back compat.
// Empty strings, null, undefined and "auto" are converted to 0.
return !result ||
// complex values such as "rotate(1rad)" are returned as-is.
result = jQuery.css( tween.elem,

// Passing an empty string as a 3rd parameter to .css will automatically
// attempt a parseFloat and fallback to a string if the parse fails.
// Simple values such as "10px" are parsed to
```

This code snippet is part of a larger context that involves jQuery CSS operations, specifically focusing on the `jQuery.css()` function and related hooks. The snippet demonstrates the use of `cssHook` and the handling of various CSS property values, including automatic conversion rules and fallback strategies for different property types and values.
jQuery.fx.step[ tween.prop ] ) {
	jQuery.fx.step[ tween.prop ]( { tween: undefined } )
	else if ( tween.elem.nodeType === 1 &&
	jQuery.fx.step[ tween.elem.style[ tween.prop ] ] !== null )
	jQuery.fx.step[ tween.style ]( tween );
	return; else if ( tween.elem.nodeType
					=== 1 &&
				( tween.elem.style[ tween.prop ] !== null )
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Implement show/hide animations

```javascript
function Animation( elem, properties, options ) {

    var animation = deferred.promise( {
        elem: elem,
        props: props
    } );

    animation.always( function() {

        // Reusing 'index' because we have the correct "name"
        for ( index in props ) {
            name = jQuery.camelCase( index );
            easing = specialEasing[ name ];

            if ( hooks && "expand" in hooks ) {
                value = hooks.expand( value ) ;
            }

            // Per-property setup
            propTween = createTween( hidden ? dataShow[ prop ] : 0, prop, anim
```
name, value );\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is defined\n\n\n// Attribute hooks are determined by the lowercase version\n\n\n// Grab necessary hook if one is 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before the default action, do it now

return event.result;
},

// Piggyback on a donor event to simulate a different one
// Used only for 'focus(in | out)
	simulate: function( type, elem, event ) {
		var e = jQuery.extend(
			new jQuery.Event(),
			event,
			{
				type: type,
				isSimulated: true
			}
		);

		jQuery.event.trigger( e, null, elem );
	}

} );

jQuery.fn.extend( {

	trigger: function( type, data ) {
		return this.each( function() {
			jQuery.event.trigger( type, data, this );
		}
		);
	},
	hover: function( fnOver, fnOut ) {
		return this.mouseenter( fnOver ).mouseleave( fnOut || fnOver );
	}
} );


support.focusin = typeof window.onfocusin !== "undefined";


// Support: Firefox <=44
// Firefox doesn't have focus(in | out) events
// Related ticket - https://bugzilla.mozilla.org/show_bug.cgi?id=687787
//
// Support: Chrome <=48 - 49, Safari <=9.0 - 9.1
// focus(in | out) events fire after focus & blur events,
// which is spec violation - http://www.w3.org/TR/DOM-Level-3-Events/#events-focusevent-event-order
// Related ticket - https://bugzilla.mozilla.org/show_bug.cgi?id=687787
//
Open Source Used In Secure Workload 3.6.1.1 20136

**Prefilters**

- Before asking for a transport
- After param serialization (s.data is a string if

Storage

- Data

```
trnoContent = /^(?:GET|HEAD)$/;
```

- Additional headers

```
trheaders = /^(.*?):\{\}\$;\};
```

- Local protocol detection

```
trlocalProtocol = /^(?:about|app|app-
```

```
text/xml" );
```

```
tr20 = /%20/g,
```

```
trhash = /#.*$/,
```

```
trantiCache = /\?/ ( type = this.type; 
```

```
jQuery.map( val, function( elem ) {
```

```
return { name: elem.name, value: val.replace( rCRLF, "\r\n" ) };
```

```
jQuery.each( a, function( i, elem ) {
```

```
return { name: elem.name, value: val.replace( rCRLF, "\r\n" ) };
```

```
var
```

```
// Support: IE 9 - 11 only
IE throws on parseFromString with invalid input.

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This text appears to be a mix of JavaScript code and English comments, likely extracted from a developer's codebase. The text includes functions, variables, and conditional statements related to handling URL manipulation, request headers, and handling of response status codes. It is not structured in a clear, natural format due to the apparent extraction error or formatting issue.
Open Source Used In Secure Workload
3.6.1.1
2014

```javascript
var oldCallbacks = [],
jsonp =
{
	callback: function( type ) {
		jsonp = ( callback )
		callback = errorCallback = xhr.onload =

```

```javascript
// Prevent auto-execution of scripts when no explicit
dataType was provided (See gh-2432)
jQuery.ajaxPrefilter( function( s ) {
	if ( s.crossDomain ) {
		s.type = "GET";
	}
} );

// Install script dataType
jQuery.ajaxSetup( {
	accepts: {
		script:
"text/javascript, application/javascript, " +
"application/ecmascript, application/x-
ecmascript\text{" ,
	contents: {
		script: /\b(?:java|ecma)script\b/,
		text: /\b(?:java|ecma)script\b/,
	converters: {
		"text script": /\b(?:java|ecma)script\b/,
```

```javascript
// Handle cache's special case
\#{

```

```javascript
// Set
headers

```

```javascript
// Prevent auto-execution of scripts when no explicit
dataType was provided (See gh-2432)
jQuery.ajaxPrefilter( function( s ) {
	if ( s.crossDomain ) {
		xhr.overrideMimeType( options.mimeType );
```

```javascript
// X-Requested-Within header

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// X-Requested-Within header

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// X-Requested-Within header

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&

```javascript
&& typeof params === 'object') {
    type = 'POST';
}

// If we have elements to modify, make the request
if (self.length > 0) {
    jQuery.ajax({
        url: url,

        // If 'type' variable is undefined, then 'GET' method will be used.
        // but they are ignored because response was set above.
        if (It fails, this function gets the jqXHR, status, 
        error(\n            \n        ).always( callback &amp; function( jqXHR, status )
            \n        );

        // Attach a bunch of functions for handling common AJAX events
        jQuery.each( ["ajaxStart", "ajaxStop", "ajaxComplete", "ajaxError", "ajaxSuccess", "ajaxSend"],
            function( i, type ) {
                jQuery.fn[ type ] = function( fn ) {
                    return this.on( type, fn );
               );
            });

        jQuery.expr.pseudos.animated = function( elem ) {
            return jQuery.grep( jQuery.timers, function( fn ) {
                return elem === fn.elem;
            } ).length;
       );

        jQuery.offset = {
            setOffset: function( elem, options, i ) {
                var curPosition, curLeft, curCSSTop, curTop, curOffset, curCSSLeft, calculatePosition,
                    position = jQuery.css( elem, "position" ),
                    curElem = jQuery( elem ),
                    props = {};

                // Set position first, in-case top/ left are set even on static elem
                if (position === 'static') {
                    elem.style.position = 'relative';
                }

                curOffset = curElem.offset();
                curCSSTop = jQuery.css( elem, "top" );
                curCSSLeft = jQuery.css( elem, "left" );
                calculatePosition = (position === "absolute" || position === "fixed") &&
                    (curCSSTop + curCSSLeft).indexOf( "auto" ) > -1;

                // Need to be able to calculate position if either
                if (calculatePosition) {
                    curPosition = curElem.position();
                    curTop = curPosition.top;
                    curLeft = curPosition.left;
                } else {
                    curTop = parseFloat( curCSSTop ) || 0;
                    curLeft = parseFloat( curCSSLeft ) || 0;
                }

                if (jQuery.isFunction( options )) {
                    options = options.call( elem, i, jQuery.extend( {}, curOffset ) );
                }

                if (options.top != null) {
                    props.top = (options.top - curOffset.top) + curTop;
                }
                if (options.left != null) {
                    props.left = (options.left - curOffset.left) + curLeft;
                }

                if ("using" in options) {
                    options.using.call( elem, props );
                } else {
                    curElem.css( props );
                }
            }
        };
```
Subtract parent offsets and element margins.

\[
\text{return } \{
\text{top: offset.top - parentOffset.top - jQuery.css(elem, \"marginTop\", true),}
\text{left: offset.left - parentOffset.left - jQuery.css(elem, \"marginLeft\", true)}
\}\}
\]

\text{This method will return documentElement if the following cases: (1) For the element inside the iframe without offsetParent, this method will return documentElement of the parent window (2) For the hidden or detached element (3) For body or html element, i.e. in case of the html node - it will return itself.}

\text{but those exceptions were never presented as a real life use-cases and might be considered as more preferable results.}
\text{This logic, however, is not guaranteed and can change at any point in the future.}

\text{offsetParent: function() { return this.map( function() {
\text{offsetParent = offsetParent.offsetParent;}
\text{offsetParent || documentElement;}
\text{\}\};
\text{\}\);}
\text{Create scrollLeft and scrollTop methods using jQuery.each( scrollLeft: \"pageXOffset\", scrollTop: \"pageYOffset\", function( method, prop ) {\text{\}
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\text{Open Source Used In Secure Workload 3.6.1.1 20145
AMD module, since jQuery can be concatenated with other files that may use define, but not via a proper concatenation script that understands anonymous AMD modules. A named AMD is safest and most robust way to register. Lowercase/jquery is used because AMD module names are derived from file names, and jQuery is normally delivered in a lowercase/file name. Do this after creating the global so that if an AMD module wants to call noConflict to hide this version of jQuery, it will work. Note that for maximum portability, libraries that are not jQuery should declare themselves as anonymous modules, and avoid setting a global if AMD loader is present. jQuery is a special case. For more information, see:
https://github.com/jrburke/requirejs/wiki/Updating-existing-libraries#wiki-anon

 AMD module, since jQuery can be concatenated with other files that may use define, but not via a proper concatenation script that understands anonymous AMD modules. A named AMD is safest and most robust way to register. Lowercase/jquery is used because AMD module names are derived from file names, and jQuery is normally delivered in a lowercase/file name. Do this after creating the global so that if an AMD module wants to call noConflict to hide this version of jQuery, it will work. Note that for maximum portability, libraries that are not jQuery should declare themselves as anonymous modules, and avoid setting a global if AMD loader is present. jQuery is a special case. For more information, see:
https://github.com/jrburke/requirejs/wiki/Updating-existing-libraries#wiki-anon
```javascript
/**
 * Invoke a function for each value in an iterable.
 *
 * @param object - The iterable or array-like object of interest.
 *
 * @param fn - The predicate function to invoke for each value.
 *
 * @returns `true` if all values pass the test,
 * iterable satisfy a predicate.
 *
 * @param object - The iterable or array-like object of interest.
 *
 * 
 * is in the file LICENSE, distributed with this software.
 */

exports.each = each;

/**
 * Test whether all values in an iterable or array-like object
 * callback function to invoke for each value.
 *
 * #### Notes
 * Iteration can be terminated early by returning `false` from the
 * callback function.
 *
 * #### Complexity
 * Linear.
 *
 * #### Example
 *
 * ```
 * function each(object, fn) {
 *     var index = 0;
 *     var it = iter(object);
 *     var value;
 *     while ((value = it.next()) !== undefined) {
 *         if (fn(value, index++)) {
 *             return;
 *         }
 *     }
 * }
 *
 * exports.each(data, value => { console.log(value); });
 * ```
 */

function each(object, fn) {
    var index = 0;
    var it = iter(object);
    var value;
    while ((value = it.next()) !== undefined) {
        if (fn(value, index++)) {
            return;
        }
    }
}

exports.iter = iter;

/**
 * Invoke a function for each value in an iterable or array-like object.
 *
 * @param object - The iterable or array-like object of interest.
 *
 * @param fn - The predicate function to invoke for each value.
 *
 * @returns `true` if all values pass the test,
 */

function iter(object) {
    var it;
    if (typeof object.iter === 'function') {
        it = object.iter();
    }
    else {
        it = new ArrayIterator(object);
    }
    return it;
}
```

if setTimeout wasn’t available but was later defined
if (cachedSetTimeout === defaultSetTimeout || !cachedSetTimeout)
    try {
        // when when somebody has screwed with setTimeout but no I.E. madness
        return cachedSetTimeout.call(this, fun, 0);
    } catch (e) {
        
        // same as above but when it’s a version of I.E. that must have the global object for ‘this’,
        hopefully our context correct otherwise it will throw a global error
        return cachedSetTimeout.call(null, fun, 0);
    }
}

if (cachedClearTimeout === clearTimeout || 
    clearTimeout)
    return clearTimeout(marker);
}

try {
    // when when somebody has screwed with setTimeout but no I.E. madness
    return cachedClearTimeout(marker);
} catch (e){
    try {
        // When we are in I.E. but the script has been evaled so I.E. doesn’t trust the global object when called normally
        return cachedClearTimeout.call(null, marker);
    } catch (e){
        // same as above but when it’s a version of I.E. that must have the global object for ‘this’,
        hopefully our context correct otherwise it will throw a global error
        return SOME_VERSIONS_OF_I.E. have different rules for clearTimeout vs setTimeout
    }
}

queue.push(new Item(fun, args));
if (queue.length === 1 && !draining)
    runTimeout(drainQueue);
}

process.title = 'browser';
process.browser = true;
process.env = {};
process.argv = [];
process.version = ''; // empty string to avoid regexp issues
process.versions = {};

function noop() {}

process.on = noop;
process.addListener = noop;
process.once = noop;
process.off = noop;
process.removeListener = noop;
process.removeAllListeners = noop;
process.emit = noop;
process.prependListener = noop;
process.prependOnceListener = noop;

process.listeners = function (name) { return [] }

process.binding = function (name) {
    throw new Error('process.binding is not supported');
};

process.cwd = function () { return '/' };
process.chdir = function (dir) {
    throw new Error('process.chdir is not supported');
};

WEBPACK FOOTER

var Buffer = require('safe-buffer').Buffer
var Transform = require('stream').Transform
var StringDecoder = require('string_decoder').StringDecoder
var CipherBase = require('./CipherBase').CipherBase
var inherits = require('inherits')

function CipherBase (hashMode) {
    Transform.call(this)
    this.hashMode = typeof hashMode === 'string'
    if (this.hashMode) {
        this[hashMode] = this._finalOrDigest
    } else {
        this.final = this._finalOrDigest
    }
    if (this._final) {
        this.__final = this._final
        this._final = null
    }
    this._decoder = null
    this._encoding = null
}

inherits(CipherBase, Transform)

CipherBase.prototype.update = function (data, inputEnc, outputEnc) {
    if (typeof data === 'string')
        data = Buffer.from(data, inputEnc)
    var outData = this._update(data)
    if (typeof data === 'string')
        outData = this._toString(outData, outputEnc)
    return outData
}

CipherBase.prototype.setAutoPadding = function () {}
CipherBase.prototype.getAuthTag = function () {
    throw new Error('trying to get auth tag in unsupported
```javascript
Layout.prototype.processParentMessage = function (msg) {
    switch (msg.type) {
        case 'resize':
    // Use this method to process a message.
    // Subclasses may reimplement this method as needed.
    * *
    * #### Notes
    * This method is called by the parent widget to process a message.
    * The options for initializing the layout.
    * The options for initializing the layout.

    // Bail if the policy does not change
    // Clear the size constraints and schedule a fit of the parent.
    // The message sent to the parent widget.
    // This method is called by the parent widget to process a message.
    // Subclasses may reimplement this method as needed.
    
    // Bail if the policy does not change
    // Clear the size constraints and schedule a fit of the parent.
    // The message sent to the parent widget.
    // This method is called by the parent widget to process a message.
    // Subclasses may reimplement this method as needed.
    
    // Bail if the policy does not change
    // Clear the size constraints and schedule a fit of the parent.
    // The message sent to the parent widget.
    // This method is called by the parent widget to process a message.
    // Subclasses may reimplement this method as needed.
```
this.onResize(msg);
break;

this.onUpdateRequest(msg);
break;

this.onFitRequest(msg);
break;

this.onBeforeShow(msg);
break;

this.onBeforeHide(msg);
break;

this.onAfterHide(msg);
break;

this.onBeforeAttach(msg);
break;

this.onAfterAttach(msg);
break;

this.onBeforeDetach(msg);
break;

this.onAfterDetach(msg);
break;

this.onChildRemoved(msg);
break;

this.onChildShown(msg);
break;

this.onChildHidden(msg);
break;

/**
 * Perform layout initialization which requires the parent widget.
 * This method is invoked immediately after the layout is installed.
 * The default implementation reparents all of the widgets to the layout parent widget.
 * Subclasses should reimplement this method and attach the child widget nodes to the parent widget's node.
 * The default implementation of this method sends an `UnknownSize` resize message to all widgets.
 * This may be reimplemented by subclasses as needed.
 */
Layout.prototype.init = function () {
    var _this = this;
    algorithm_1.each(this, function (widget) {
        widget.parent = _this.parent;
    });
}

/**
 * A message handler invoked on a `resize` message.
 * The layout should ensure that its widgets are resized according to the specified layout space, and that they are sent a `resize` message if appropriate.
 * The default implementation of this method sends an `UnknownSize` resize message to all widgets.
 * This may be reimplemented by subclasses as needed.
 */
Layout.prototype.onResize = function (msg) {
    algorithm_1.each(this, function (widget) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.ResizeMessage.UnknownSize);
    });
}

/**
 * A message handler invoked on an `update-request` message.
 * The layout should ensure that its widgets are resized according to the available layout space, and that they are sent a `resize` message if appropriate.
 * The default implementation of this method sends an `UnknownSize` resize message to all widgets.
 * This may be reimplemented by subclasses as needed.
 */
Layout.prototype.onUpdateRequest = function (msg) {
    algorithm_1.each(this, function (widget) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.ResizeMessage.UnknownSize);
    });
}

/**
 * A message handler invoked on a `before-attach` message.
 * The default implementation of this method forwards the message to all widgets. It assumes all widget nodes are attached to the parent widget.
 * This may be reimplemented by subclasses as needed.
 */
Layout.prototype.onBeforeAttach = function (msg) {
    algorithm_1.each(this, function (widget) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.ResizeMessage.UnknownSize);
    });
}

/**
 * A message handler invoked on an `after-attach` message.
 * The default implementation of this method forwards the message to all widgets. It assumes all widget nodes are attached to the parent widget.
 * This may be reimplemented by subclasses as needed.
 */
Layout.prototype.onAfterAttach = function (msg) {
    algorithm_1.each(this, function (widget) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.ResizeMessage.UnknownSize);
    });
}

/**
 * A message handler invoked on a `before-detach` message.
 * The default implementation of this method forwards the message to all widgets. It assumes all widget nodes are attached to the parent widget.
 * This may be reimplemented by subclasses as needed.
 */
Layout.prototype.onBeforeDetach = function (msg) {
    algorithm_1.each(this, function (widget) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.ResizeMessage.UnknownSize);
    });
}

/**
 * A message handler invoked on an `after-detach` message.
 * The default implementation of this method forwards the message to all widgets. It assumes all widget nodes are attached to the parent widget.
 * This may be reimplemented by subclasses as needed.
 */
Layout.prototype.onAfterDetach = function (msg) {
    algorithm_1.each(this, function (widget) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.ResizeMessage.UnknownSize);
    });
}
Layout.prototype.onAfterDetach = function (msg) {
    algorithm_1.each(this, function (widget) {
        messaging_1.MessageLoop.sendMessage(widget, msg);
    });
};

Layout.prototype.onBeforeShow = function (msg) {
    algorithm_1.each(this, function (widget) {
        if (!widget.isHidden) {
            messaging_1.MessageLoop.sendMessage(widget, msg);
        }
    });
};

Layout.prototype.onAfterShow = function (msg) {
    algorithm_1.each(this, function (widget) {
        if (!widget.isHidden) {
            messaging_1.MessageLoop.sendMessage(widget, msg);
        }
    });
};

Layout.prototype.onBeforeHide = function (msg) {
    algorithm_1.each(this, function (widget) {
        if (!widget.isHidden) {
            messaging_1.MessageLoop.sendMessage(widget, msg);
        }
    });
};

Layout.prototype.onAfterHide = function (msg) {
    algorithm_1.each(this, function (widget) {
        if (!widget.isHidden) {
            messaging_1.MessageLoop.sendMessage(widget, msg);
        }
    });
};

Layout.prototype.onChildRemoved = function (msg) {
    this.removeWidget(msg.child);
};

Layout.prototype.onFitRequest = function (msg) { };

Layout.prototype.onChildShown = function (msg) { };

Layout.prototype.onChildHidden = function (msg) { };

Private.horizontalAlignmentProperty.get(widget);
```javascript
/**
 * Set the vertical alignment for a widget.
 *
 * @param widget - The widget of interest.
 * @param value - The value for the vertical alignment.
 *
 * #### Notes
 * This class is useful when implementing a layout which arranges its widgets using absolute positioning.
 * This class is used by nearly all of the built-in Phosphor layouts.
 * An object which assists in the absolute layout of widgets.
 * * **** Notes*
 * * Changing the horizontal alignment will post an `update-request` message to widget's parent, provided the parent has a layout installed.
 * * param value - The value for the vertical alignment.
 */
Layout.setVerticalAlignment = function setVerticalAlignment(widget, value) {
    Private.verticalAlignmentProperty.set(widget, value);
    Layout.setVerticalAlignment = setVerticalAlignment;
    return Private.verticalAlignmentProperty.get(widget);
}

/**
 * Set the horizontal alignment for a widget.
 *
 * @param widget - The widget of interest.
 * @param value - The value for the horizontal alignment.
 *
 * #### Notes*
 * * If the layout height allocated to a widget is larger than its max height, the vertical alignment controls how the widget is placed within the extra vertical space.
 * * If the allocated height is less than the widget's max height, the vertical alignment has no effect.
 * * Some layout implementations may ignore vertical alignment.
 */
Layout.setHorizontalAlignment = function setHorizontalAlignment(widget, value) {
    Private.horizontalAlignmentProperty.set(widget, value);
    Layout.setHorizontalAlignment = setHorizontalAlignment;
    return Private.horizontalAlignmentProperty.get(widget);
}

/**
 * The computed maximum width of the widget.
 *
 * #### Notes*
 * * This value can be updated by calling the `fit` method.
 * * get: function ()
 * * enumerable: true,
 * * configurable: true;
 */
Private.minWidthProperty = new Property({
    get: function () {
        return this._minWidth;
    },
    enumerable: true,
    configurable: true
});

/**
 * The computed minimum width of the widget.
 *
 * #### Notes*
 * * This value can be updated by calling the `fit` method.
 * * get: function ()
 * * enumerable: true,
 * * configurable: true;
 */
Private.maxWidthProperty = new Property({
    get: function () {
        return this._maxWidth;
    },
    enumerable: true,
    configurable: true
});

/**
 * The computed minimum height of the widget.
 *
 * #### Notes*
 * * This value can be updated by calling the `fit` method.
 * * get: function ()
 * * enumerable: true,
 * * configurable: true;
 */
Private.minHeightProperty = new Property({
    get: function () {
        return this._minHeight;
    },
    enumerable: true,
    configurable: true
});

/**
 * The computed maximum height of the widget.
 *
 * #### Notes*
 * * This value can be updated by calling the `fit` method.
 * * get: function ()
 * * enumerable: true,
 * * configurable: true;
 */
Private.maxHeightProperty = new Property({
    get: function () {
        return this._maxHeight;
    },
    enumerable: true,
    configurable: true
});
```

---

*The computed minimum height of the widget.*

*The computed maximum width of the widget.*

*The computed maximum height of the widget.*

*This value can be updated by calling the `fit` method.*

*get: function ()

*enumerable: true,*

*configurable: true;

*The computed minimum width of the widget.*

*The computed maximum width of the widget.*

*The computed minimum height of the widget.*

*The computed maximum height of the widget.*

*This value can be updated by calling the `fit` method.*

*get: function ()

*enumerable: true,*

*configurable: true;

*Whether the layout item is disposed.*

*get: function ()

*enumerable:*
```javascript
var coreutils_1 = require("@phosphor/coreutils");
var _isEqual = require("lodash/isEqual");

// see https://developer.mozilla.org/en-
remove(obj, path) {
    if (obj.toJSON) {
        // We need to get the JSON form of the object before
        state of the widget model
    // however, we do not want to clone everything, for performance
    function
    // the internal
    to those paths (.buffers).
 */
function remove_buffers(state) {
    var buffers = [];
    var buffer_paths = [];
    // say we want to set state[x][y][z] =
array1}, c: [0, array2]}
 */
function put_buffers(state, buffer_paths, buffers) {
    for (var i = 0; i < buffers.length; i++) {
        var buffer = buffers[i];
        var buffer_path = buffer_paths[i];
        // We want to set state[x][y][z] =
array1}, c: [0, null]}
 */
function reject(message, log) {
    return function
    // the original error message before rethrowing
    or the original error that caused the promise to reject.
    function promiseRejection(error) {
        if (log) {
            console.warn('WrappedError has been deprecated!');
            // It's a simple
returns a new instance of Error. Here we capture that instance so we can
apply it's properties to `this`.
 */
exports.WrappedError = /** @class */ (function (_super) {

    function WrappedError(message, error) {
        var _this = _super.call(this,
        // a wrappable
    function resolvePromisesDict(d) {
        var keys = Object.keys(d);
        var values = [];
            keys.forEach(function (key) {
                values.push(d[key]);
            });
        return
);
}
exports.difference = difference;
```
var __assign = function (a, b) {
    var c = Object.keys(b);
    for (var _i = 0; _i < c.length; _i++) {
        var key = c[_i];
        if (Object.prototype.hasOwnProperty.call(b, key))
            a[key] = b[key];
    }
    return a;
}

US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify#toJSON()_behavior

obj = obj.toJSON();

if (Array.isArray(obj))
    var is_cloned = false;

for (var i = 0; i < obj.length; i++)
    if (obj[i])
        var value = obj[i];

if (value)
    if (value.buffer instanceof ArrayBuffer)
        value = value.buffer;

buffers.push(value.instanceof ArrayBuffer);

ArrayBuffer ? value : value.buffer;

buffer_paths.push(path.concat([i]));

// easier to just keep the array, but clear the entry, otherwise we have to think

// about array length, much easier this way

obj[i] = null;

} else 
    var new_value = remove(value, path.concat([i]));

    // only assigned when the value changes, we may serialize objects
    that don't support assignment

    if (new_value !== value)
        if (is_cloned)
            obj = __assign({}, obj);

        is_cloned = true;

        buffers.push(value.instanceof ArrayBuffer ? value.buffer : value);

        buffer_paths.push(path.concat([key]));

        delete obj[key];

    // only assigned when the value changes, we may serialize objects
    that don't support assignment

    if (new_value !== value)
        if (is_cloned)
            obj = __assign({}, obj);

        is_cloned = true;

        obj[key] = new_value;

        return obj;

} else if (isPlainObject(obj))
    return obj = obj.slice();

    if (!is_cloned) {
        obj = __assign({}, obj);
        is_cloned = true;
    }
    obj[i] = null;

    } else {
        var new_value = value;

        if (new_value !== value)
            if (!is_cloned) {
                obj = __assign({}, obj);
                is_cloned = true;
            }
            obj[i] = new_value;

        return obj;
    }

    return obj = obj.slice();

    if (Array.isArray(obj))
        for (var i = 0; i < obj.length; i++)
            var value = obj[i];

        if (value)
            if (value.buffer instanceof ArrayBuffer)
                value = value.buffer;

        buffers.push(value.instanceof ArrayBuffer ? value.buffer : value);

        buffer_paths.push(path.concat([i]));

        delete obj[i];

        // only assigned when the value changes, we may serialize objects
        that don't support assignment

        if (new_value !== value)
            if (is_cloned)
                obj = __assign({}, obj);

            is_cloned = true;

            obj[i] = new_value;

            return obj;

    // just keep the array, but clear the entry, otherwise we have to think
    // about array length, much easier this way

    obj[i] = null;

    } else if (isPlainObject(obj))
        return obj = obj.slice();

    if (!is_cloned) {
        obj = __assign({}, obj);
        is_cloned = true;
    }
    for (var key in obj) {
        var is_cloned = false;
        if (obj.hasOwnProperty(key))
            var value = obj[key];

        if (value)
            if (value.buffer instanceof ArrayBuffer)
                value = value.buffer;

        buffers.push(value.instanceof ArrayBuffer ? value.buffer : value);

        buffer_paths.push(path.concat([key]));

        delete obj[key];

        // only assigned when the value changes, we may serialize objects
        that don't support assignment

        if (new_value !== value)
            if (is_cloned)
                obj = __assign({}, obj);

            is_cloned = true;

            obj[key] = new_value;

            return obj;

    } else if (isPlainObject(obj))
        return obj = obj.slice();

    if (!is_cloned) {
        obj = __assign({}, obj);
        is_cloned = true;
    }
    for (var key in obj) {
        var is_cloned = false;
        if (obj.hasOwnProperty(key))
            var value = obj[key];

        if (value)
            if (value.buffer instanceof ArrayBuffer)
                value = value.buffer;

        buffers.push(value.instanceof ArrayBuffer ? value.buffer : value);

        buffer_paths.push(path.concat([key]));

        delete obj[key];

        // only assigned when the value changes, we may serialize objects
        that don't support assignment

        if (new_value !== value)
            if (is_cloned)
                obj = __assign({}, obj);

            is_cloned = true;

            obj[key] = new_value;

            return obj;

    }
Webpack Footer

```javascript
// WEBPACK FOOTER
// ../node_modules/@phosphor/coreutils/lib/index.js
// module id = 26
// module chunks = 0

var Buffer = require('safe-buffer').Buffer

crypto = global.crypto || global.msCrypto

if (crypto && crypto.getRandomValues) {
  module.exports = randomBytes
} else {
  module.exports = oldBrowser
}

function randomBytes (size, cb) {
  if (size > 65536) throw new Error('requested too many random bytes')

  var rawBytes = new global.Uint8Array(size)

  if (size > 0) {  // getRandomValues fails on IE if size == 0
    crypto.getRandomValues(rawBytes)
  }

  var bytes = Buffer.from(rawBytes.buffer)

  if (typeof cb === 'function') {
    return process.nextTick(function () {
      cb(null, bytes)
    })
  }

  return bytes
}

/**
 * Gets the native function at `key` of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @param {string} key The key of the method to get.
 * @returns {*} Returns the function if it's native, else `undefined`.
 */
function getNative(object, key) {
  var value = getValue(object, key);
  return baseIsNative(value) ? value : undefined;
}

module.exports = getNative;

```

Open Source Used In Secure Workload 3.6.1.1 20160

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*\n
\n
++

---

*/
AttachedProperty.prototype._coerceValue = function (owner, value) {
    var coerce = this._coerce;
    return coerce ? coerce(owner, value) : value;
}

/**
 * Coerce the value for the given owner.
 */
AttachedProperty.prototype._createValue = function (owner) {
    var create = this._create;
    return create(owner);
}

/**
 * Get or create the default value for the given owner.
 */
AttachedProperty.prototype.set = function (owner, value) {
    var oldValue;
    var map = Private.ensureMap(owner);
    if (this._pid in map) {
        oldValue = map[this._pid];
    }
    else {
        oldValue = map[this._pid] = this._createValue(owner);
    }
    return oldValue;
}

/**
 * Explicitly coerce the current property value for a given owner.
 */
AttachedProperty.prototype.coerce = function (owner) {
    var oldValue;
    var map = Private.ensureMap(owner);
    if (this._pid in map) {
        oldValue = map[this._pid];
    }
    else {
        oldValue = map[this._pid] = this._createValue(owner);
    }
    return oldValue;
}

/**
 * Get the current value of the property for a given owner.
 */
AttachedProperty.prototype.get = function (owner) {
    var value;
    var map = Private.ensureMap(owner);
    if (this._pid in map) {
        value = map[this._pid];
    }
    else {
        value = map[this._pid] = this._createValue(owner);
    }
    return value;
}

/**
 * Compare the old value and new value for
 * comparison.
 */
AttachedProperty.prototype.compare = function (owner, oldValue, newValue) {
    if (this._compare) {
        return this._compare(oldValue, newValue);
    }
    return oldValue === newValue;
}

/**
 * Compare the old value and new value for equality.
 */
AttachedProperty.prototype.compareValue = function (oldValue, newValue) {
    if (this._compare) {
        return this._compare(oldValue, newValue);
    }
    return oldValue === newValue;
}
/**
 * Run the change notification if the given values are different.
 * @param owner - The property owner of interest.
 * @param oldValue - The old value.
 * @param newValue - The new value.
 */
AttachedProperty.prototype._maybeNotify = function (owner, oldValue, newValue) {
    var changed = this._changed;
    if (changed & & !this._compareValue(oldValue, newValue)) {
        changed(owner, oldValue, newValue);
    }
    // rest of the function
};

/**
 * Clear the stored property data for the given owner.
 * @param owner - The property owner of interest.
 * @param not** - Run the change notification for any of the properties.
 */
function clearData(owner) {
    Private.ownerData.delete(owner);
}

/**
 * The namespace for the `AttachedProperty` class statics.
 * @typedef {function} AttachedProperty
 */
var AttachedProperty = exports.AttachedProperty = {
    /**
     * Clear the stored property data for the given owner.
     * @param owner - The property owner of interest.
     */
    clearData: clearData
};

/**
 * The namespace for the module implementation details.
 * @typedef {function} AttachedProperty
 */
var AttachedProperty = exports.AttachedProperty = {
    /**
     * A weak mapping of property owner to property map.
     * @typedef {function} AttachedProperty
 */
    ensureMap: ensureMap
};

function HashNoConstructor (hash) {
  Base.call(this, 'digest')

  this._hash = hash
  this.buffers = []
}

inherits(HashNoConstructor, Base)

HashNoConstructor.prototype._update = function (data) {
  this.buffers.push(data)
}

HashNoConstructor.prototype._final = function () {
  var buf = Buffer.concat(this.buffers)
  var stem = Math.random().slice(2);
  var r = this._hash(buf)
  this.buffers = null
  return r
};

function Hash (hash) {
  Base.call(this, 'digest')

  this._hash = hash
}

inherits(Hash, Base)

Hash.prototype._update = function (data) {
  this._hash.update(data)
}

Hash.prototype._final = function () {
  return this._hash.digest()
};

module.exports = function createHash (alg) {
  alg = alg.toLowerCase()
  if (alg === 'md5') return new HashNoConstructor(md5)
  if (alg === 'rmd160' || alg === 'ripemd160') return new Hash(new RIPEMD160())

  return new Hash(sha(alg))
};

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// copy of the Software, and to persons to whom the Software is furnished to do so,
// subject to the following conditions:
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// The above copyright notice and this permission notice shall be included in all copies or
// substantial portions of the Software.

// NOTE: These type checking functions intentionally don't use 'instanceof'
// because it is fragile and can be easily faked with
// 'Object.create()'. function isArray(arg) {
//  if (Array.isArray) {
//    return Array.isArray(arg);
//  }
//  return objectToString(arg) === '[object Array]';
//}
exports.isArray = isArray;

function isBoolean(arg) {
  return
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// Software, and to persons to whom the Software is furnished to do so, subject to the
// following conditions:
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// 'Object.create()'. function isArray(arg) {
//  if (Array.isArray) {
//    return Array.isArray(arg);
//  }
//  return objectToString(arg) === '[object Array]';
//}
exports.isArray = isArray;
typeof arg === 'boolean';
}
exports.isBoolean = isBoolean;

function isNull(arg) {
  return arg === null;
}
exports.isNull = isNull;

function isNullOrUndefined(arg) {
  return arg == null;
}
exports.isNullOrUndefined = isNullOrUndefined;

function isNumber(arg) {
  return typeof arg === 'number';
}
exports.isNumber = isNumber;

function isString(arg) {
  return typeof arg === 'string';
}
exports.isString = isString;

function isSymbol(arg) {
  return typeof arg === 'symbol';
}
exports.isSymbol = isSymbol;

function isUndefined(arg) {
  return arg === void 0;
}
exports.isUndefined = isUndefined;

function isRegExp(re) {
  return objectToString(re) === '[object RegExp]';
}
exports.isRegExp = isRegExp;

function isObject(arg) {
  return typeof arg === 'object' && arg !== null;
}
exports.isObject = isObject;

function isDate(d) {
  return objectToString(d) === '[object Date]';
}
exports.isDate = isDate;

function isError(e) {
  return (objectToString(e) === '[object Error]' || e instanceof Error);
}
exports.isError = isError;

function isFunction(arg) {
  return typeof arg === 'function';
}
exports.isFunction = isFunction;

function isPrimitive(arg) {
  return arg === null ||
         typeof arg === 'boolean' ||
         typeof arg === 'number' ||
         typeof arg === 'string' ||
         typeof arg === 'symbol' ||  // ES6 symbol
         typeof arg === 'undefined';
}
exports.isPrimitive = isPrimitive;

exports.isBuffer = Buffer.isBuffer;

function objectToString(o) {
  return Object.prototype.toString.call(o);
}


function xor (a, b) {
  var length = Math.min(a.length, b.length)
  var buffer = new Buffer(length)

  for (var i = 0; i < length; ++i) {
    buffer[i] = a[i] ^ b[i]
  }

  return buffer
}


function BlockHash() {
  this.pending = null;
  this.pendingTotal = 0;

  this.blockSize = this.constructor.blockSize;
  this.outSize = this.constructor.outSize;
  this.hmacStrength = this.constructor.hmacStrength;
  this.padLength = this.constructor.padLength / 8;
  this.endian = 'big';

  this._delta8 = this.blockSize / 8;
  this._delta32 = this.blockSize / 32;
}
exports.BlockHash = BlockHash;

BlockHash.prototype.update = function update(msg, enc) {
  // Convert message to array, pad it, and join into 32bit block
  msg = exports.toArray(msg, enc);
  if (!this.pending)
    this.pending = msg;
  else
    this.pending = this.pending.concat(msg);
  this.pendingTotal += msg.length;

  // Enough data, try updating
  if (this.pending.length >= this._delta8) {
    msg = this.pending;

    // Process pending data in blocks
    var r = msg.length % this._delta8;
    this.pending = msg.slice(msg.length - r, msg.length);
    if (this.pending.length === 0)
      this.pending = null;

    msg = exports.join32(msg, 0, msg.length - r, this.endian);
    for (var i = 0; i < msg.length; i += this._delta32)
      this._update(msg, i, i + this._delta32);
  }

  return this;
};

BlockHash.prototype.digest = function digest(enc) {
  this.update(this._pad());

  return this;
};


var asn1 = exports;

asn1.bignum = require('bn.js');

asn1.define = require('./asn1/api').define;
asn1.base = require('./asn1/base');
asn1.constants = require('./asn1/constants');
asn1.decoders = require('./asn1/decoders');
asn1.encoders = require('./asn1/encoders');


var base = exports;

base.Reporter = require('./reporter').Reporter;
base.DecoderBuffer = require('./buffer').DecoderBuffer;
base.EncoderBuffer = require('./buffer').EncoderBuffer;
base.Node =
The BoxSizer holds the geometry information for an object along an arbitrary layout orientation. BoxSizer should be treated as a raw box engine layout functions.

The preferred size for the sizer is used when layout space is distributed. A stretch factor of zero is special and will cause the sizer to only be resized after all other sizers with a stretch factor greater than zero have been resized to their limits.

The default value is 0. The minimum size of the sizer is used when layout space is distributed. A stretch factor of zero is special and will cause the sizer to only be resized after all other sizers with a stretch factor greater than zero have been resized to their limits.

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this.size = 0;  
/* */  
* An internal storage property for the layout algorithm.  
* Changing this value will have no effect.  
*
this.done = false;  
return
BoxSizer;  
})(exports.BoxSizer = BoxSizer;  
* */  
* The namespace for the box engine layout functions.  
* */  
* var BoxEngine;  
* function (BoxEngine) {  
* */  
* Calculate the optimal layout sizes for a sequence of box sizers.  
* */  
* This distributes the available layout space among the box sizers according to the following algorithm:
* */  
* 1. Initialize the sizers’s size to its size hint and compute the
* sums for each of size hint, min size, and max size.  
* 2. If the total size hint equals the available space, return.  
* 3. If the available space is less than the total min size, set all
* sizers to their min size and return.  
* 4. If the available space is greater than the total max size, set
* all sizers to their max size and return.  
* 5. If the layout space is less than the total size hint, distribute the
* negative delta as follows:  
* a. Shrink each slider with a stretch factor greater than zero by
* an amount proportional to the negative space and the sum of
* stretch factors. If the slider reaches its min size, remove
* it and its stretch factor from the computation.  
* b. If after adjusting all
* stretch sizers there remains negative
* space, distribute the space equally among the sizers with
* stretch factor of zero. If a slider reaches its min size
* remove it from the computation.  
* 6. If the layout space is greater than the total size hint, distribute the positive delta as follows:
* a. Expand each slider with a stretch factor greater than zero by
* an amount proportional to the positive space and the sum of
* stretch factors. If the slider reaches its max size, remove
* it and its stretch factor from the computation.  
* b. If after adjusting all
* stretch sizers there remains positive
* space, distribute the space equally among the sizers with
* stretch factor of zero. If a slider reaches its max size
* remove it from the computation.  
* 7. return
* @returns The delta between the provided available space and the
* actual consumed space. This value will be zero if the sizers can be adjusted to fit, negative if the available space is too small, and positive if the available space is too large.  
* The [[size]] of each slider is updated with the computed size.  
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* The [[size]] of each slider is updated with the computed size.  
* * */
factor. If a sizer reaches its min size it's marked as done. The loop progresses in phases where each sizer is given a chance to consume its fair share for the pass, regardless of whether a sizer before it reached its limit. This continues until the stretchable sizers or the free space is exhausted.

var freeSpace = space - totalSize; while (stretchCount > 0 && freeSpace > nearZero) {


var freeSpace = space - totalSize; while (stretchCount > 0 && freeSpace > nearZero) {


}
            }
            // Indicate that the consumed space equals the available space.
            return 0;
        }

        freeSpace =amt;
        sizer.size =amt;
        sizer.done =true;
        notDoneCount--;
    }

    freeSpace -= amt;
    sizer.size += amt;
}

    }

    }

    }

    }

    }

    }

    }

    }

    }

    }

    }

    }

    }

    } // Indicate that the consumed space equals the available space.
    return 0;

    BoxEngine.calc = calc;

    Adjust a sizer by a delta and update its neighbors accordingly.

    * @param sizers - The sizers which should be adjusted.

    * @param index - The index of the sizer to grow.

    * @param delta - The amount to adjust the sizer, positive or negative.

    Notes

    * This will adjust the indicated sizer by the specified amount, allowing with the sizes of the appropriate neighbors, subject to the limits specified by each of the sizers.

    * This is useful when implementing box layouts where the boundaries between the sizers are interactively adjustable by the user.

    * A function adjust(sizers, index, delta) { 

        // Bail early when there is nothing to do.
        if (sizers.length === 0 || delta === 0) {
            return;
        } else {
            for (var i = 0; i < count; ++i) {
                var sizer = sizers[i];

                if (sizer.size + amt >= sizer.maxSize) {
                    freeSpace -= sizer.maxSize - sizer.size;
                    totalStretch -= sizer.stretch;
                }

                while (notDoneCount > 0 && freeSpace > nearZero) {
                    var amt = freeSpace / notDoneCount;
                    for (var i = 0; i < count; ++i) {
                        var sizer = sizers[i];

                        if (sizer.done || sizer.stretch === 0) {
                            continue;
                        } else {
                            sizer.size += amt;
                            freeSpace -= amt;
                            notDoneCount--;
                        }
                    }
                    // Indicate that the consumed space equals the available space.
                    return 0;
                }

                var amt = sizer.stretch * distSpace / distStretch;
                if (sizer.size - amt <= sizer.minSize) {
                    freeSpace -= sizer.size - sizer.minSize;
                    totalStretch -= sizer.stretch;
                }

                while (notDoneCount > 0 && freeSpace > nearZero) {
                    var amt = freeSpace / notDoneCount;
                    for (var i = 0; i < count; ++i) {
                        var sizer = sizers[i];

                        if (sizer.done || sizer.stretch === 0) {
                            continue;
                        } else {
                            sizer.size -= amt;
                            freeSpace -= amt;
                            notDoneCount--;
                        }
                    }
                    // Indicate that the consumed space equals the available space.
                    return 0;
                }

                var amt = sizer.stretch * distSpace / distStretch;
                if (sizer.size - amt <= sizer.minSize) {
                    freeSpace -= sizer.size - sizer.minSize;
                    totalStretch -= sizer.stretch;
                }

                while (notDoneCount > 0 && freeSpace > nearZero) {
                    var amt = freeSpace / notDoneCount;
                    for (var i = 0; i < count; ++i) {
                        var sizer = sizers[i];

                        if (sizer.done || sizer.stretch === 0) {
                            continue;
                        } else {
                            sizer.size -= amt;
                            freeSpace -= amt;
                            notDoneCount--;
                        }
                    }
                    // Indicate that the consumed space equals the available space.
                    return 0;
                }

                freeSpace -= amt;
                sizer.size += amt;
            }
            // Indicate that the consumed space equals the available space.
            return 0;
        }

        BoxEngine.calc = calc;

        * Adjust a sizer by a delta and update its neighbors accordingly.

        * @param sizers - The sizers which should be adjusted.

        * @param index - The index of the sizer to grow.

        * @param delta - The amount to adjust the sizer, positive or negative.

        Notes

        * This will adjust the indicated sizer by the specified amount, allowing with the sizes of the appropriate neighbors, subject to the limits specified by each of the sizers.

        * This is useful when implementing box layouts where the boundaries between the sizers are interactively adjustable by the user.

        * A function adjust(sizers, index, delta) { 

            // Bail early when there is nothing to do.
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                return;
            } else {
                growSizer(sizers, index, delta);
            }

            shrinkSizer(sizers, index, -delta);
            BoxEngine.adjust = adjust;
        } /* */

        * Grow a sizer by

        * Shrink a sizer by

        * A function shrink(sizers, index, delta) { 

            // Bail early when there is nothing to do.
            if (sizers.length === 0 || delta === 0) {
                return;
            } else {
                shrinkSizer(sizers, index, delta);
            }

            growSizer(sizers, index, -delta);
            BoxEngine.adjust = adjust;
        } /* */
a positive delta and adjust neighbors.

```javascript
// Compute how much the items to the left can expand.
var growLimit = 0; // for (var i = 0; i < n; ++i) {
    var sizer = sizers[i];
    growLimit += sizer.maxSize - sizer.size; // Compute how much the items to the right can shrink.
    var shrinkLimit = 0; // for (var i = index + 1, n = sizers.length; i < n; ++i) {
        var sizer = sizers[i];
        shrinkLimit += sizer.size - sizer.minSize;
    }
    // Clamp the delta adjustment to the limits.
    delta = Math.min(delta, growLimit, shrinkLimit);
    // Grow the sizers to the left by the delta.
    var grow = delta; // for (var i = index; i >= 0 && grow > 0; --i) {
        var sizer = sizers[i];
        sizer.size = sizer.size + grow;
        grow = 0; // Shrink the sizers to the right by the delta.
        var shrink = delta; // for (var i = index + 1, n = sizers.length; i < n; ++i) {
            var sizer = sizers[i];
            sizer.size = sizer.size - shrink;
            shrink = 0;
        }
        // Clamp the delta adjustment to the limits.
        delta = Math.min(delta, growLimit, shrinkLimit);
        // Grow the sizers to the left by the delta.
        var grow = delta; // for (var i = index; i >= 0 && grow > 0; --i) {
            var sizer = sizers[i];
            sizer.size = sizer.size + grow;
            grow = 0; // Shrink the sizers to the right by the delta.
            var shrink = delta; // for (var i = index + 1, n = sizers.length; i < n; ++i) {
                var sizer = sizers[i];
                sizer.size = sizer.size - shrink;
                shrink = 0;
            }
        }
    }
    // Grow the sizers to the right by the delta.
    var grow = delta; // for (var i = index + 1, n = sizers.length; i < n; ++i) {
        var sizer = sizers[i];
        sizer.size = sizer.size + grow;
        grow = 0; // Shrink the sizers to the left by the delta.
        var shrink = delta; // for (var i = index; i >= 0 && shrink > 0; --i) {
            var sizer = sizers[i];
            sizer.size = sizer.size - shrink;
            shrink = 0;
        }
    }
    // Clamp the delta adjustment to the limits.
    delta = Math.min(delta, growLimit, shrinkLimit);
    // Grow the sizers to the left by the delta.
    var grow = delta; // for (var i = index; i >= 0 && grow > 0; --i) {
        var sizer = sizers[i];
        sizer.size = sizer.size + grow;
        grow = 0; // Shrink the sizers to the right by the delta.
        var shrink = delta; // for (var i = index + 1, n = sizers.length; i < n; ++i) {
            var sizer = sizers[i];
            sizer.size = sizer.size - shrink;
            shrink = 0;
        }
    }
```
```
*\n* Subclasses may reimplement this method to control how the widget's node is added to the parent's node. *
* PanelLayout.prototype.attachWidget = function (index, widget) { \n  // Look up the next sibling reference node. var ref = this.parent.node.children[index]; \n  // Send a "before-attach" message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeAttach); \n  } \n  // Insert the widget's node before the sibling. this.parent.node.insertBefore(widget.node, ref); \n  // Send an "after-attach" message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterAttach); \n  } \n} */

PanelLayout.prototype.attachWidget = function (index, widget) {
    // Look up the next sibling reference node.
    var ref = this.parent.node.children[index];
    // Send a "before-attach" message if the parent is attached. if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeAttach);
    } \n    // Insert the widget's node before the sibling. this.parent.node.insertBefore(widget.node, ref); \n    // Send an "after-attach" message if the parent is attached. if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterAttach);
    } \n}

/**
* Move a widget in the parent's DOM node.
* @param fromIndex - The current index of the widget in the layout. * @param toIndex - The current index of the widget in the layout. * @param widget - The widget to move in the parent. * This method is called automatically by the panel layout at the appropriate time. It should not be called directly by user code.
* The default implementation moves the widget's node to the proper * location in the parent's node and sends the appropriate attach and detach messages to the widget if the parent is attached to the DOM.
* Subclasses may reimplement this method to control how the widget's node is moved in the parent's node. *
* PanelLayout.prototype.moveWidget = function (fromIndex, toIndex, widget) { \n  // Send a "before-detach" message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeDetach);
  } \n  // Remove the widget's node from the parent. this.parent.node.removeChild(widget.node); \n  // Send an "after-detach" and message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterDetach);
  } \n  // Look up the next sibling reference node. var ref = this.parent.node.children[toIndex]; \n  // Send a "before-attach" message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeAttach);
  } \n  // Insert the widget's node before the sibling. this.parent.node.insertBefore(widget.node, ref); \n  // Send an "after-attach" message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.After Attach);
  } \n} */

PanelLayout.prototype.moveWidget = function (fromIndex, toIndex, widget) {
    // Send a "before-detach" message if the parent is attached. if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeDetach);
    } \n    // Remove the widget's node from the parent. this.parent.node.removeChild(widget.node); \n    // Send an "after-detach" and message if the parent is attached. if (this.parent.isAttached) { \n        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterDetach);
    } \n    // Look up the next sibling reference node. var ref = this.parent.node.children[toIndex]; \n    // Send a "before-attach" message if the parent is attached. if (this.parent.isAttached) { \n        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeAttach);
    } \n    // Insert the widget's node before the sibling. this.parent.node.insertBefore(widget.node, ref); \n    // Send an "after-attach" message if the parent is attached. if (this.parent.isAttached) { \n        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterAttach);
    } \n}

/**
* Detach a widget from the parent's DOM node.
* @param index - The current index of the widget in the layout. * @param widget - The widget to detach from the parent. * Subclasses may reimplement this method to control how the widget's node is removed from the parent's node. *
* PanelLayout.prototype.detachWidget = function (index, widget) { \n  // Send a "before-detach" message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeDetach);
  } \n  // Remove the widget's node from the parent. this.parent.node.removeChild(widget.node); \n  // Send an "after-detach" message if the parent is attached. if (this.parent.isAttached) { \n    messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterDetach);
  } \n} */

PanelLayout.prototype.detachWidget = function (index, widget) {
    // Send a "before-detach" message if the parent is attached. if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeDetach);
    } \n    // Remove the widget's node from the parent. this.parent.node.removeChild(widget.node); \n    // Send an "after-detach" message if the parent is attached. if (this.parent.isAttached) { \n        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterDetach);
    } \n}
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HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

module.exports = Stream;

var EE = require('events').EventEmitter;
var inherits = require('inherits');

inherits(Stream, EE);
Stream.Readable = require('readable-stream/readable.js');
Stream.Writable = require('readable-stream/writable.js');
Stream.Duplex = require('readable-stream/duplex.js');
Stream.Transform = require('readable-stream/transform.js');
Stream.PassThrough = require('readable-stream/passthrough.js');

// Backwards-compat with node 0.4.
Stream = Stream;

// old-style streams.  Note that the pipe method (the only
relevant thing part of this class) is overridden in the Readable class.

function Stream() {
  EE.call(this);
}

Stream.prototype.pipe = function(dest, options) {
  var source = this;

  function ondata(chunk) {
    if (dest.writable) {
      if (false === dest.write(chunk) && source.pause) {
        source.pause();
      }
    }
  }

  source.on('data', ondata);

  function ondrain() {
    if (source.readable && source.resume) {
      source.resume();
    }
  }

  dest.on('drain', ondrain);

  // If the 'end' option is not supplied, dest.end() will be called when
  // source gets the 'end' or 'close' events. Only dest.end() once.
  if (!dest._isStdio && (!options || options.end !== false)) {
    source.on('end', onend);
    source.on('close', onclose);
  }

  var didOnEnd = false;
  function onend() {
    if (didOnEnd) return;
    didOnEnd = true;

    dest.end();
  }

  function onclose() {
    if (didOnEnd) return;
    didOnEnd = true;

    if (typeof
    dest.destroy === 'function') dest.destroy();
  }

  source.on('error', onerror);
  dest.on('error', onerror);

  function cleanup() {
    source.removeListener('data', ondata);
    dest.removeListener('drain', ondrain);
    source.removeListener('end', onend);
    source.removeListener('close', onclose);
    source.removeListener('error', onerror);
    dest.on('error', onerror);
  }

  source.on('end', cleanup);
  source.on('close', cleanup);
  dest.on('close', cleanup);

  dest.emit('pipe', source);

  // Allow for unix-like usage: A.pipe(B).pipe(C)
  return dest;
};


//////////////////
// WEBPACK FOOTER
// ../node_modules/stream-browserify/index.js
// module id = 43
// module chunks = 0

if (!process.version ||
    process.version.indexOf('v0.') === 0 ||
    process.version.indexOf('v1.') === 0
    && process.version.indexOf('v1.8.') !== 0) {
  module.exports = nextTick;
} else {
  module.exports = process.nextTick;
}

function nextTick(fn, arg1, arg2, arg3) {
  if (typeof fn !== 'function') {
    throw new TypeError('"callback" argument must be a function');
  }
  var len = arguments.length;
  switch (len) {
    case 0:
      return process.nextTick(fn);
    case 1:
      return process.nextTick(fn, null, arg1);
    case 2:
      return process.nextTick(function afterTickOne() {
        fn.call(null, arg1, arg2);
      });
    case 3:
      return process.nextTick(function afterTickTwo() {
        fn.call(null, arg1, arg2, arg3);
      });
    default:
      // args = new Array(len - 1);
      i = 0;
      while (i < len) {
        args[i++] = arguments[i];
      }
      return process.nextTick(function afterTickThree() {
        fn.call(null, arg1, arg2, arg3);
      });
  }
};

// DOM APIs, for completeness

// return new Timeout(apply.call(setTimeout, window, arguments),
// clearTimeout);

function nextTick(fn, arg1, arg2, arg3) {
  if (typeof fn !== 'function') {
    throw new TypeError('"callback" argument must be a function');
  }
  var len = arguments.length;
  var args, i;
  switch (len) {
    case 0:
      return process.nextTick(fn);
    case 1:
      return process.nextTick(fn, null, arg1);
    case 2:
      return process.nextTick(function afterTickOne() {
        fn.call(null, arg1, arg2);
      });
    case 3:
      return process.nextTick(function afterTickTwo() {
        fn.call(null, arg1, arg2, arg3);
      });
    default:
      // args = new Array(len - 1);
      i = 0;
      while (i < len) {
        args[i++] = arguments[i];
      }
      return process.nextTick(function afterTickThree() {
        fn.call(null, arg1, arg2, arg3);
      });
  }
};

// WEBPACK FOOTER
// ../node_modules/process-nextick-args/index.js
// module id = 44
// module chunks = 0

// For completeness

exports.setTimeout = function() {
  return new Timeout(apply.call(setTimeout, window, arguments),
  clearTimeout);
};
exports.setInterval = function() {
  return new Timeout(apply.call(setInterval, window, arguments),
  clearInterval);
};
exports.clearTimeout =
exports.clearInterval = function(timeout) {
  if (timeout) {
    timeout.close();
  }
};

function Timeout(id, clearFn) {
  this._id = id;
  this._clearFn = clearFn;
}

function apply(fn, args) {
  try {
    return fn.apply(this, args);
  } finally {
    if (args) {
      this._clearFn(args);
    }
  }
}

function nextTick(fn, arg1, arg2, arg3) {
  var len = arguments.length;
  switch (len) {
    case 0:
      return process.nextTick(fn);
    case 1:
      return process.nextTick(fn, null, arg1);
    case 2:
      return process.nextTick(function afterTickOne() {
        fn.call(null, arg1, arg2);
      });
    case 3:
      return process.nextTick(function afterTickTwo() {
        fn.call(null, arg1, arg2, arg3);
      });
    default:
      // args = new Array(len - 1);
      i = 0;
      while (i < len) {
        args[i++] = arguments[i];
      }
      return process.nextTick(function afterTickThree() {
        fn.call(null, arg1, arg2, arg3);
      });
  }
};

// For completeness
1) ^ (xi << 2) ^ (xi << 3) ^ (xi << 4)\n    sx = (sx >>> 8) ^ (sx & 0xff) ^ 0x63\n    SBOX[x] = sx\n    INV_SBOX[sx] = x

    // Compute multiplication
    var x2 = d[x]\n    var x4 = d[x2]\n    var x8 = d[x4]\n    // Compute sub bytes, mix columns tables\n    var t = (d[sx] * 0x101) * (sx * 0x1010100) \n    SUB_MIX[0][x] = (t << 24) \n    t >>>= 8 \n    SUB_MIX[1][x] = (t << 16) \n    t >>>= 16 \n    SUB_MIX[2][x] = (t << 8) \n    t >>>= 24 \n    SUB_MIX[3][x] = t

    // Compute multiplication
    var x2 = d[x]\n    var x4 = d[x2]\n    var x8 = d[x4]\n
    // Compute sub bytes, mix columns tables\n    var t = (d[sx] * 0x101) ^ (sx * 0x1010101) \n    ^ (sx * 0x10001) \n    ^ (x * 0x1010101) \n    INV_SUB_MIX[0][sx] = (t << 24) \n    t >>>= 8 \n    INV_SUB_MIX[1][sx] = (t << 16) \n    t >>>= 16 \n    INV_SUB_MIX[2][sx] = (t << 8) \n    t >>>= 24 \n    INV_SUB_MIX[3][sx] = t

    if (x === 0) {
      x = xi
    } else {
      x = x2 ^ d[d[d[x8 ^ x2]]]\n    }

  }

  return {
    SBOX: SBOX,
    INV_SBOX: INV_SBOX,
    SUB_MIX: SUB_MIX,
    INV_SUB_MIX: INV_SUB_MIX
  })()

function AES (key) {
  this._key = asUInt32Array(key)
  this._reset()
}

AES.blockSize = 4 * 4
AES.keySize = 256 / 8
AES.prototype.blockSize = AES.blockSize
AES.prototype.keySize = AES.keySize
AES.prototype._reset = function () {
  var keyWords = this._key
  var keySize = keyWords.length
  var nRounds = keySize + 6
  var ksRows = (nRounds + 1) * 4

  var keySchedule = []
  for (var k = 0; k < keySize; k++) {
    keySchedule[k] = keyWords[k]
  }

  for (k = keySize; k < ksRows; k++) {
    var t = keySchedule[k - 1]

    if (k % keySize === 0) {
      t = (t << 8) | (t >>> 24)
      t =
        (G.SBOX[t >>> 24] << 24) |
        (G.SBOX[(t >>> 16) & 0xff] << 16) |
        (G.SBOX[(t >>> 8) & 0xff] << 8) |
        (G.SBOX[t & 0xff])

      t ^= RCON[(k / keySize) | 0]
    } else if (keySize > 6 && k % keySize === 4) {
      t =
        (G.SBOX[t >>> 24] << 24) |
        (G.SBOX[(t >>> 16) & 0xff] << 16) |
        (G.SBOX[(t >>> 8) & 0xff] << 8) |
        (G.SBOX[t & 0xff])
    }

    keySchedule[k] = keySchedule[k - keySize] ^ t
  }

  var invKeySchedule = []
  for (var ik = 0; ik < ksRows; ik++) {
    var ksR = ksRows - ik
    var tt = keySchedule[ksR - (ik % 4 ? 0 : 4)]

    if (ik < 4 || ksR <= 4) {
      invKeySchedule[ik] = tt
    } else {
      invKeySchedule[ik] =
        G.INV_SUB_MIX[0][G.SBOX[tt >>> 24]] ^
        G.INV_SUB_MIX[1][G.SBOX[(tt >>> 16) & 0xff]] ^
        G.INV_SUB_MIX[2][G.SBOX[(tt >>> 8) & 0xff]] ^
        G.INV_SUB_MIX[3][G.SBOX[tt & 0xff]]
    }
  }

  this._nRounds = nRounds
  this._keySchedule = keySchedule
  this._invKeySchedule = invKeySchedule
}

AES.prototype.encryptBlockRaw = function (M) {
  M = asUInt32Array(M)
  return cryptBlock(M, this._keySchedule, G.SUB_MIX, G.SBOX, this._nRounds)
}

AES.prototype.encryptBlock = function (M) {
  var out = this.encryptBlockRaw(M)
  var buf = Buffer.allocUnsafe(16)
  buf.writeUInt32BE(out[0], 0)
  buf.writeUInt32BE(out[1], 4)
  buf.writeUInt32BE(out[2], 8)
  buf.writeUInt32BE(out[3], 12)
  return buf
}

AES.prototype.decryptBlock = function (M) {
  M = asUInt32Array(M)
  var m1 = M[1]
  M[3] = m1
  var out = this.encryptBlockRaw(M)
  var buf = Buffer.allocUnsafe(16)
  buf.writeUInt32BE(out[0], 0)
  buf.writeUInt32BE(out[1], 4)
  buf.writeUInt32BE(out[2], 8)
  buf.writeUInt32BE(out[3], 12)
  return buf
}

AES.prototype.scrub = function () {
  scrubVec(this._keySchedule)
  scrubVec(this._invKeySchedule)
  scrubVec(this._key)
}

module.exports.AES = AES


//////////////////
// WEBPACK FOOTER
// ...node_modules/browserify-aes/aes.js
// module id = 47
// module chunks = 0

```javascript
var curve = exports;
curve.base = require('./base');
curve.short = require('./short');
curve.mont = require('./mont');
curve.edwards = require('./edwards');


//////////////////
// WEBPACK FOOTER
// ...node_modules/elliptic/lib/elliptic/curve/index.js
// module id = 48
// module chunks = 0
```
### VirtualElement

#### Constructor

A constructor for creating a virtual element node.

**Example:**

```javascript
VirtualElement('div', { class: 'container' }, [
    VirtualText('Hello, world!'),
    VirtualElement('img', { src: 'image.jpg' })
]);
```

#### VirtualText

A virtual node which represents an HTML `text` element.

**Example:**

```javascript
VirtualText('Hello, world!');
```

## Notes

- User code will not typically create a `VirtualText` node directly. Instead, the `h()` function will be used to create an element from a string.

---

### Panel

#### Constructor

A constructor for creating a panel.

**Example:**

```javascript
new Panel();
```

#### Inserting Widgets

- `insertWidget(index, widget)`: Inserts a widget at the specified index.
- `addWidget(widget)`: Adds a widget to the end of the panel.
- `addAtEnd(widget)`: Adds a widget to the end of the panel.

**Example:**

```javascript
panel.insertWidget(2, new TextNode('Hi'));
panel.addWidget(new ImageNode('logo.png'));
panel.addAtEnd(new ButtonNode('Close'));
```

## Notes

- User code will not typically create a `Panel` object directly. Instead, the `PanelLayout` class will be used.

---

### Algorithm

#### require

A utility function for requiring modules.

**Example:**

```javascript
var algo = require('@phosphor/algorithm');
```

## Notes

- The `algorithm_1` module is required for implementing convenience methods for algorithmic operations.

---

### Contributions

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---

### Notices

- This is a simplified version of the full license.
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---

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### Module Details

Module implementation details can be found in the file.

---

### Webpack Footer

Webpack footer details can be found in the file.

---

### Documentation

For more information, see the [PhosphorJS documentation](https://phosphorjs.github.io).

---

### License Details

The full license is available in the `LICENSE` file.

---

### Version Information

Version information can be found in the file.

---

### Source Code

Source code details can be found in the file.

---
The namespace for the 'h' function.

/*\n * The type of the node.
 * *\n * This value can be used as a type guard for discriminating
 * 'VirtualNode' union type.
 * *\n * this.type = 'element';
 * this.tag = tag;
 * this.attrs = attrs;
 * this.children = children;
 */\n\nreturn
\nVirtualElement();\n
/**\n * The type of the node.
 * *\n * This value can be used as a type guard for discriminating
 * 'VirtualNode' union type.
 * *\n * this.type = 'element';
 * this.tag = tag;
 * this.attrs = attrs;
 * this.children = children;
 */\n\nreturn
\nVirtualElement();\n
exports.VirtualElement = VirtualElement;\n
function h(tag) {\n    var attrs = {};
    var children = [];
    for (var i = 1, n = arguments.length; i < n; ++i) {
        var arg = arguments[i];
        if (typeof arg === 'string') {\n            children.push(new VirtualText(arg));\n        } else if (arg instanceof VirtualText) {\n            children.push(arg);\n        } else if (arg instanceof Array) {\n            extend(children, arg);\n        } else if (i === 1 && arg && typeof arg === 'object') {\n            attrs = arg;
        }
    }
    return new VirtualElement(tag, attrs, children);
}

function extend(array, values) {\n    for (var _i = 0, values_1 = values; _i < values_1.length; _i++) {
        var child = values_1[_i];
        if (typeof child === 'string') {\n            array.push(new VirtualText(child));
        } else if (child instanceof VirtualText) {\n            array.push(child);\n        } else if (child instanceof Array) {\n            extend(array, child);
        } else {\n            array.push(child);
        }
    }
}

function VirtualElement(tag, attrs, children) {\n    this.type = 'element';
    this.tag = tag;
    this.attrs = attrs;
    this.children = children;
}

function h(tag) {\n    var attrs = {};
    var children = [];
    for (var i = 1, n = arguments.length; i < n; ++i) {\n        var arg = arguments[i];
        if (typeof arg === 'string') {\n            children.push(new VirtualText(arg));
        } else if (arg instanceof Array) {\n            extend(children, arg);
        } else if (arg instanceof VirtualText) {\n            children.push(arg);
        } else if (arg instanceof Object) {\n            extend(children, arg);
        } else {\n            children.push(arg);
        }
    }
    return new VirtualElement(tag, attrs, children);
}

exports.h = h;\n
/**\n * The namespace for the `h` function.
 * *\n * the\n * array.push(child);
 * \n \n"**\n
*/

(function (h) {\n    h.a = h.bind(undef, 'a');\n    h.abbr = h.bind(undef, 'abbr');\n    h.strong = h.bind(undef, 'strong');\n    h.mark = h.bind(undef, 'mark');\n    h.xmp = h.bind(undef, 'xmp');\n    h.thead = h.bind(undef, 'thead');\n    h.tbody = h.bind(undef, 'tbody');\n    h.tfoot = h.bind(undef, 'tfoot');\n    h.th = h.bind(undef, 'th');\n    h.td = h.bind(undef, 'td');\n    h.tt = h.bind(undef, 'tt');\n    h.ti = h.bind(undef, 'ti');\n    h.publisher = h.bind(undef, 'publisher');\n    h.meta = h.bind(undef, 'meta');\n    h.b = h.bind(undef, 'b');\n    h.i = h.bind(undef, 'i');\n    h.noindex = h.bind(undef, 'noindex');\n    h.title = h.bind(undef, 'title');\n    h.tr = h.bind(undef, 'tr');\n    h.track = h.bind(undef, 'track');\n    h.u = h.bind(undef, 'u');
})(h);
```javascript
function addAttrs(element, attrs) {
    // Add the inline event listeners and node attributes.
    for (var name in attrs) {
        if (name in specialAttrs || oldAttrs[name] === attrs[name]) {
            continue;
        }
        // Add the element `for` attribute.
        if (attrs.htmlFor !== undefined) {
            element.setAttribute('for', attrs.htmlFor);
        }
        // Add the element `class` attribute.
        if (attrs.className !== undefined) {
            element.setAttribute('class', attrs.className);
        }
        // Add the for element attributes and listeners which no longer exist.
        if (oldAttrs[name] !== attrs[name]) {
            element.removeAttribute(name);
        }
        // Update the element attributes.
        if (oldAttrs[name] !== attrs[name]) {
            element.setAttribute(name, attrs[name]);
        }
        // Add the element `for` attribute.
        if (attrs.htmlFor !== undefined) {
            element.setAttribute('for', attrs.htmlFor);
        }
        // Add the element `class` attribute.
        if (attrs.className !== undefined) {
            element.setAttribute('class', attrs.className);
        }
        // Add the element attribute.
        if (attrs.name !== undefined) {
            element.setAttribute(name, attrs[name]);
        }
        // Add the element `for` attribute.
        if (attrs.htmlFor !== undefined) {
            element.setAttribute('for', attrs.htmlFor);
        }
        // Add the element `class` attribute.
        if (attrs.className !== undefined) {
            element.setAttribute('class', attrs.className);
        }
    }
}
```

Math.pow(d / Private.SCROLL_EDGE_SIZE, 2);
            var s = Math.max(1, Math.round(f *
            delta using nonlinear acceleration.
            var d = Private.SCROLL_EDGE_SIZE - distance;
            var f =
            !_this._scrollTarget) {
                return;
            }
            // Unpack the scroll target.
            var _a =
        this._onScrollFrame = function () {
            // Bail early if there is no scroll target.
            if
    target indicates an appropriate drop action. If
    * the event is canceled, the indicated drop action is returned to
    * the initiator through the resolved promise.
    * A drag operation can be terminated at any time by pressing
    * `Escape` or by disposing the drag object.
    * A drag object has the ability to automatically scroll a
    * scrollable element when the mouse is hovered near one of its edges. To enable
    * drag operations to be initiated programmatically and enables the
    * transfer of arbitrary non-string objects;
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```typescript
import { Drag } from '@phosphor/dragdrop';

// Force the cursor to be 'wait' for other classes to fix the cursor icon during normal mouse drags.

const drag = Drag.overrideCursor('wait');

// Clear the override by disposing the return value.
`Drag.overrideCursor(drag)();
```

The most recent call to `overrideCursor` takes precedence.

### Notes

- **Utility function** is used by the `Drag` class to override the mouse cursor during a drag-drop operation, but it can also be used by other classes to fix the cursor icon during normal mouse drags.
- **Example**

```typescript
const curTarget = document.body;
const newTarget = document.body.appendChild(document.createElement('div'));
Drag.overrideCursor('move');
```

Disposing an old override has no effect on the current override.

```
Drag.overrideCursor('move');
```

This utility function is used by the `Drag` class to override the mouse cursor during a drag-drop operation, but it can also be used by other classes to fix the cursor icon during normal mouse drags.

```
```
currTarget - The current drag target element, or `null`. This\nis the current target element from the whatwg spec.\n
*\n
*param prevTarget - The previous target element, or `null`. This\n* is the previous current target element from the whatwg spec.\n
*\n
*param prevTarget - The previous target element, or `null`. This\n* is the previous current target element from the whatwg spec.\n
*\n
*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
*\n
*param drag - The drag object associated with the action.\n
*\n
*param prevTarget - The previous target element, or `null`. This\n* is the previous current target element from the whatwg spec.\n
*\n
*param prevTarget - The previous target element, or `null`. This\n* is the previous current target element from the whatwg spec.\n
*\n
*param drag - The drag object associated with the action.\n
*\n
*param drag - The drag object associated with the action.\n
*\n
*param prevTarget - The previous target element, or `null`. This\n* is the previous current target element from the whatwg spec.\n
*\n
*param drag - The drag object associated with the action.\n
*\n
*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
*\n
*param prevTarget - The previous target element, or `null`. This\n* is the previous current target element from the whatwg spec.\n
*\n
*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
*\n
*param drag - The drag object associated with the action.\n
*\n
*param prevTarget - The previous target element, or `null`. This\n* is the previous current target element from the whatwg spec.\n
*\n
*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
*\n
*param drag - The drag object associated with the action.\n
*\n
*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
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*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
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*param drag - The drag object associated with the action.\n
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*\n
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*\n
*param drag - The drag object associated with the action.\n
*\n
*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
*\n
*param drag - The drag object associated with the action.\n
*\n
*param currTarget - The current drag target element, or `null`. This\n* is the current target element from the whatwg spec.\n
*
else if (mediaQuery) {
					item[2] = "(" + item[2] + ") and (" + mediaQuery + "alreadyImportedModules[item[0]]); // If mediaQuery is not null, return 'none'
			}
			if (mediaQuery && !item[2]) {
				item[2] = mediaQuery;
			}
			this will never occur (Hey this way we have smaller bundles)
			if (typeof item[0] !== "number" || query combinations
			// when a module is imported multiple times with different media queries.
			// I hope
			// skip already imported module
			// this implementation is not 100% perfect for weird media
			// modules[i];
			// alreadyImportedModules = {};
			for (i = 0; i < modules.length; i++) {
				var item = modules[i];
				// alreadyImportedModules[item[0]] = true;
				if (typeof id === "number") {
				alreadyImportedModules[id] = true;
			}
			}

	// import a list of modules into the list
	list.i = function (modules, useSourceMap) {
				return "@media " + item[2] + "{" + content + "}";
			} else {
				return list.map(function (item) {
			var content = cssWithMappingToString(item, useSourceMap);
			if (item[2]) {
	var list = [];

	// return the list of modules as css string

dragEvent.toString = function toString() {
	return the list of modules as css string

dragEvent.supportedActions = drag.supportedActions;

	// Return the fully initialized drag event
	return dragEvent;

	Private.dispatchDrop = dispatchDrop;

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var serverAttrs = options.parse ? model.parse(resp, options) : resp;
        if (!model.set(serverAttrs, options)) return
      }
      var model = this;
      var success = options.success;
      options.success = function(resp) {
        if (!_.isEqual(prev[attr], val)) {
          changed[attr] = val;
        } else {
          delete changed[attr];
        }
      }
      return _.size(changed) ? changed : false;
    },

    // Clear all attributes on the model, firing `"change"`.
    clear: function(options) {
      if (!changing) {
        this._previousAttributes = _.clone(this.attributes);
        this._changing = true;
      }
      this.changed = {};
      var current = this.attributes;
      var changed = this.changed;
      var prev = this.previousAttributes;
      // For each `set` attribute, update or delete the current value.
      for (var attr in attrs) {
        val = attrs[attr];
        if (!_.isEqual(current[attr], val)) changes.push(attr);
      }
      // Update the `id`.
      this._pending = options;
      var silent = options.unset;
      var changes = [];
      var changing = this._changing;
      this._pending = false;
      this._changing = false;
      if (!silent) {
        for (var i = 0; i < changes.length; i++) {
          this.trigger('change:' + changes[i], this, current[changes[i]], options);
        }
      }
      // For each `set` attribute, update or delete the current value.
      for (var attr in current) {
        val = current[attr];
      }
      // Update the `id`.
      this.id = this.get(this.idAttribute);
      // Trigger all relevant attribute changes.
      if (!silent) {
        if (changes.length) this._pending = options;
        this.trigger('change:', this, changes[changes.length - 1], options);
      }
      // Remove an attribute from the model, firing `"change"`.
      if (attr) {
      } else {
        (attrs = {})[key] = val;
      }
      options || (options = {});
      // Run validation.
      if (!this._validate(attrs, options)) return false;
      // Extract attributes and options.
      var unset = options.unset;
      var silent = options.silent;
      var changes = [];
      var varChanging = this.changing;
      this.changing = false;
      if (changing) {
        this.previousAttributes = _.clone(this.attributes);
        this.changed = {};
        var current = this.attributes;
        var changed = this.changed;
        var prev = this.previousAttributes;
        // For each `set` attribute, update or delete the current value.
        for (var attr in attrs) {
          val = attrs[attr];
          if (!_.isEqual(prev[attr], val)) {
            changed[attr] = val;
          } else {
            delete changed[attr];
          }
        }
      }
      return options;
    },

    // If the attribute doesn't exist.
    unset: function(attr, options) {
      var old = this[attr];
      if (attr) {
      } else {
        (attrs = {})[key] = val;
      }
      options || (options = {});
      // Run validation.
      if (!this._validate(attrs, options)) return false;
      // Extract attributes and options.
      var unset = options.unset;
      var silent = options.silent;
      var changes = [];
      var varChanging = this.changing;
      this.changing = false;
      if (changing) {
        this.previousAttributes = _.clone(this.attributes);
        this.changed = {};
        var current = this.attributes;
        var changed = this.changed;
        var prev = this.previousAttributes;
        // For each `set` attribute, update or delete the current value.
        for (var attr in attrs) {
          val = attrs[attr];
          if (!_.isEqual(prev[attr], val)) {
            changed[attr] = val;
          } else {
            delete changed[attr];
          }
        }
      }
      return options;
    },

    // Trigger all relevant attribute changes.
    if (!silent) {
      if (changes.length) this._pending = options;
      this.trigger('change:', this, changes[changes.length - 1], options);
    }
  }
  return this;
},

// Get the previous value of an attribute, recorded at the time the last
// `"change"` event was fired.
previous: function(attr) {
  if (attr == null) return this.previousAttributes[attr];
},

// Get all of the attributes of the model at the time of the previous
// `"change"` event.
previousAttributes: function() {
  return _.clone(this.previousAttributes);
},

// Fetch the model from the server, merging the response with the model's
// local attributes. Any changed attributes will trigger a `"change"` event.
fetch: function(options) {
  options = {extend: parse: true, options: serverAttr = options.parse ? model.parse(resp, options) : resp;
  if (!model.set(serverAttr, options)) return
},

// Set a hash of model attributes on the object, firing `"change"`.
set: function(key, val, options) {
  if (key == null) return this;
  var attrs;
  if (typeof key === 'object') {
    attr = key;
    options = val;
  } else {
    (attrs = {})[key] = val;
  }
  options || (options = {});
  // Run validation.
  if (!this._validate(attrs, options)) return false;
  // Extract attributes and options.
  var unset = options.unset;
  var silent = options.silent;
  var changes = [];
  var varChanging = this.changing;
  this.changing = false;
  if (changing) {
    this.previousAttributes = _.clone(this.attributes);
    this.changed = {};
    var current = this.attributes;
    var changed = this.changed;
    var prev = this.previousAttributes;
    // For each `set` attribute, update or delete the current value.
    for (var attr in attrs) {
      val = attrs[attr];
      if (!_.isEqual(prev[attr], val)) {
        changed[attr] = val;
      } else {
        delete changed[attr];
      }
    }
  }
  return options;
},

// If the attribute doesn't exist.
unset: function(attr, options) {
  var old = this[attr];
  if (attr) {
  } else {
    (attrs = {})[key] = val;
  }
  options || (options = {});
  // Run validation.
  if (!this._validate(attrs, options)) return false;
  // Extract attributes and options.
  var unset = options.unset;
  var silent = options.silent;
  var changes = [];
  var varChanging = this.changing;
  this.changing = false;
  if (changing) {
    this.previousAttributes = _.clone(this.attributes);
    this.changed = {};
    var current = this.attributes;
    var changed = this.changed;
    var prev = this.previousAttributes;
    // For each `set` attribute, update or delete the current value.
    for (var attr in attrs) {
      val = attrs[attr];
      if (!_.isEqual(prev[attr], val)) {
        changed[attr] = val;
      } else {
        delete changed[attr];
      }
    }
  }
  return options;
},

// If the attribute doesn't exist.
unset: function(attr, options) {
  var old = this[attr];
  if (attr) {
  } else {
    (attrs = {})[key] = val;
  }
  options || (options = {});
  // Run validation.
  if (!this._validate(attrs, options)) return false;
  // Extract attributes and options.
  var unset = options.unset;
  var silent = options.silent;
  var changes = [];
  var varChanging = this.changing;
  this.changing = false;
  if (changing) {
    this.previousAttributes = _.clone(this.attributes);
    this.changed = {};
    var current = this.attributes;
    var changed = this.changed;
    var prev = this.previousAttributes;
    // For each `set` attribute, update or delete the current value.
    for (var attr in attrs) {
      val = attrs[attr];
      if (!_.isEqual(prev[attr], val)) {
        changed[attr] = val;
      } else {
        delete changed[attr];
      }
    }
  }
  return options;
}
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Models.

```javascript
var orderChanged = false;
var replace = !sortable && add && remove;
if (set.length &&
    this._removeModels(toRemove, options);
    }

// See if sorting is needed, update `length` and splice in new
this.models[i];
          if (!modelMap[model.cid]) toRemove.push(model);
        }
        if (toRemove.length
        // Remove stale models.
        if (remove) {
          for (i = 0; i < this.length; i++) {
            model = this.models[i];
            modelMap[model.cid] = true;
            set.push(model);
          }

          // Prevent duplicates.
          for (i = 0; i < length; i++) array[i + at] = insert[i];
          for (i = 0; i < tail.length; i++) array[i + length + at] = tail[i];
        }
      }
    }
  }

// Remove stale models.
if (remove) {
  for (i = 0; i < this.length; i++) {
    model = this.models[i];
    if (modelMap[model.cid]) {
      modelMap[model.cid] = false;
      set.push(model);
    } else if (options.remove) {
      remove = true;
      modelMap[model.cid] = false;
      set.push(model);
    } else if (add) {
      model = models[i] = (add && options.model) || (options.model);
      var sing = !_.isArray(models);
      models = singular ? [models] : _clone(models);
      var removed = this._removeModels(models, options);
      if (!options.silent && removed) this.trigger('update', this, options);
    }

    // Initialize a new, valid model, push it to the `toAdd` list.
  } else if (add) {
    model = models[i] = (add && options.model) || (options.model);
    modelMap[model.cid] = true;
    set.push(model);
  } // Remove stale models.
  if (remove) {
    for (i = 0; i < this.length; i++) {
      var orderChanged = false;
      var replacement = false;
      var remove = !sortable && add && remove;
      if (set.length &&
```
function(model, resp, callbackOpts) {\n
if (wait) collection.add(model, callbackOpts);\n
if (success)
success.call(callbackOpts.context, model, resp, callbackOpts);\n
};\n
model.save(null, options);\n
return
model;\n },\n\n // **parse** converts a response into a list of models to be added to the\n // collection. The
default implementation is just to pass it through.\n parse: function(resp, options) {\n
return resp;\n },\n\n //
Create a new collection with an identical list of models as this one.\n clone: function() {\n
return new
this.constructor(this.models, {\n
model: this.model,\n
comparator: this.comparator\n
});\n },\n\n //
Define how to uniquely identify models in the collection.\n modelId: function (attrs) {\n
return
attrs[this.model.prototype.idAttribute || 'id'];\n },\n\n // Private method to reset all internal state. Called when the
collection\n // is first initialized or reset.\n _reset: function() {\n
this.length = 0;\n
this.models = [];\n
this._byId = {};\n },\n\n // Prepare a hash of attributes (or other model) to be added to this\n // collection.\n
_prepareModel: function(attrs, options) {\n
if (this._isModel(attrs)) {\n
if (!attrs.collection) attrs.collection =
this;\n
return attrs;\n
}\n
options = options ? _.clone(options) : {};\n
options.collection = this;\n
var
model = new this.model(attrs, options);\n
if (!model.validationError) return model;\n
this.trigger('invalid', this,
model.validationError, options);\n
return false;\n },\n\n // Internal method called by both remove and set.\n
_removeModels: function(models, options) {\n
var removed = [];\n
for (var i = 0; i < models.length; i++) {\n
var model = this.get(models[i]);\n
if (!model) continue;\n\n
var index = this.indexOf(model);\n
this.models.splice(index, 1);\n
this.length--;\n\n
if (!options.silent) {\n
options.index = index;\n
model.trigger('remove', model, this, options);\n
}\n\n
removed.push(model);\n
this._removeReference(model, options);\n
}\n
return removed.length ? removed : false;\n },\n\n // Method
for checking whether an object should be considered a model for\n // the purposes of adding to the collection.\n
_isModel: function (model) {\n
return model instanceof Model;\n },\n\n // Internal method to create a model's
ties to a collection.\n _addReference: function(model, options) {\n
this._byId[model.cid] = model;\n
var id =
this.modelId(model.attributes);\n
if (id != null) this._byId[id] = model;\n
model.on('all', this._onModelEvent,
this);\n },\n\n // Internal method to sever a model's ties to a collection.\n _removeReference: function(model,
options) {\n
delete this._byId[model.cid];\n
var id = this.modelId(model.attributes);\n
if (id != null) delete
this._byId[id];\n
if (this === model.collection) delete model.collection;\n
model.off('all', this._onModelEvent,
this);\n },\n\n // Internal method called every time a model in the set fires an event.\n // Sets need to update
their indexes when models change ids. All other\n // events simply proxy through. \"add\" and \"remove\" events
that originate\n // in other collections are ignored.\n _onModelEvent: function(event, model, collection, options)
{\n
if ((event === 'add' || event === 'remove') && collection !== this) return;\n
if (event === 'destroy')
this.remove(model, options);\n
if (event === 'change') {\n
var prevId =
this.modelId(model.previousAttributes());\n
var id = this.modelId(model.attributes);\n
if (prevId !== id) {\n
if (prevId != null) delete this._byId[prevId];\n
if (id != null) this._byId[id] = model;\n
}\n
}\n
this.trigger.apply(this, arguments);\n }\n\n });\n\n // Underscore methods that we want to implement on the
Collection.\n // 90% of the core usefulness of Backbone Collections is actually implemented\n // right here:\n var
collectionMethods = { forEach: 3, each: 3, map: 3, collect: 3, reduce: 4,\n
foldl: 4, inject: 4, reduceRight: 4, foldr:
4, find: 3, detect: 3, filter: 3,\n
select: 3, reject: 3, every: 3, all: 3, some: 3, any: 3, include: 3, includes: 3,\n
contains: 3, invoke: 0, max: 3, min: 3, toArray: 1, size: 1, first: 3,\n
head: 3, take: 3, initial: 3, rest: 3, tail: 3, drop:
3, last: 3,\n
without: 0, difference: 0, indexOf: 3, shuffle: 1, lastIndexOf: 3,\n
isEmpty: 1, chain: 1, sample: 3,
partition: 3, groupBy: 3, countBy: 3,\n sortBy: 3, indexBy: 3};\n\n // Mix in each Underscore method as a proxy
to `Collection#models`.\n addUnderscoreMethods(Collection, collectionMethods, 'models');\n\n //
Backbone.View\n // -------------\n\n // Backbone Views are almost more convention than they are actual code. A
View\n // is simply a JavaScript object that represents a logical chunk of UI in the\n // DOM. This might be a
single item, an entire list, a sidebar or panel, or\n // even the surrounding frame which wraps your whole app.
Defining a chunk of\n // UI as a **View** allows you to define your DOM events declaratively, without\n //
having to worry about render order ... and makes it easy for the view to\n // react to specific changes in the state of
your models.\n\n // Creating a Backbone.View creates its initial element outside of the DOM,\n // if an existing
element is not provided...\n var View = Backbone.View = function(options) {\n this.cid = _.uniqueId('view');\n

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function(method, model, options) {
    var type = methodMap[method];

    // Default options, unless specified.
    _.defaults(options || (options = {}),
        { emulateHTTP: Backbone.emulateHTTP,
          emulateJSON: Backbone.emulateJSON });

    // For older servers, emulate JSON by encoding the request into an HTML-form.
    if (options.emulateJSON) {
        params.contentType = 'application/json';
        params.data = JSON.stringify(options.attrs || model.toJSON(options));
    }

    // For older servers, emulate HTTP by mimicking the HTTP method with `_method`.
    if (options.emulateHTTP && (type === 'PUT' || type === 'DELETE' || type === 'PATCH')) {
        params.type = 'POST';
        if (options.emulateJSON) params.data._method = type;
    }

    xhr.setRequestHeader('X-HTTP-Method-Override', type);
    var beforeSend = options.beforeSend;
    options.beforeSend = function(xhr) {
        xhr.setRequestHeader('X-HTTP-Method-Override', type);
        if (beforeSend) return beforeSend.apply(this, arguments);
    };

    // Make the request, allowing the user to override any Ajax options.
    var xhr = options.xhr = Backbone.ajax(_.extend(params, options));
    model.trigger.apply(model, ['route:' + name].concat(args));
    model.trigger('route', name, args);
}

// Set up all inheritable **Backbone.Router** properties and methods.
_.extend(Router.prototype, Events, {

    // Initialize is an empty function by default. Override it with your own.
    initialize: function(){},

    // Manually bind a single named route to a callback. For example:
    //
    //     this.route('search/:query/p:num', 'search', function(query, num) {
    //       ...
    //     });

    route: function(route, name, callback) {
      if (!_.isRegExp(route)) route = this._routeToRegExp(route);
      if (_.isFunction(name)) {
        callback = name;
        name = '';
      }
      if (!callback) callback = this[name];
      var router = this;
      Backbone.history.route(route, function(fragment) {
        var args = router._extractParameters(route, fragment);
        if (router.execute(callback, args, name) !== false) {
            router.trigger.apply(router, ['route:' + name].concat(args));
            router.trigger('route', name, args);
        }
    });

    // Map from CRUD to HTTP for our default `Backbone.sync` implementation.
    var methodMap = {
        'create': 'POST',
        'update': 'PUT',
        'patch': 'PATCH',
        'delete': 'DELETE',
        'read': 'GET'
    };

    // Set the default implementation of `Backbone.ajax` to proxy through to `jQuery.ajax`.
    var xhr = options.xhr = Backbone.ajax(_.extend(options, arguments));
    model.trigger(request, options, options);
Backbone.history.trigger('route', router, name, args); 

### Browser API

- `onhashchange`: If the browser supports the `onhashchange` event, use `onhashchange` for history management instead of `pushState` and `replaceState`. This is highly recommended.
- `pushState` and `replaceState`: These functions are supported in modern browsers. Use these functions to save a fragment into the history.
- `window.location.href`: Use the `href` property of the `location` object to access the current URL.
- `window.location.search`: Use the `search` property of the `location` object to access the current URL.
- `window.location.hash`: Use the `hash` property of the `location` object to access the current URL.

### History Management

- `History`: A Backbone history object is returned. This object has methods for managing the history, such as `navigate`, `route`, and `matchRoot`.
- `window.history`: This is a global object that contains the history object.
- `window.location`: This is a global object that contains the current URL.

### History Properties

- `location.pathname`: This is the path portion of the current URL.
- `location.search`: This is the search portion of the current URL.
- `location.hash`: This is the hash portion of the current URL.

### History Methods

- `navigate(fragment, options)`: This method is used to save a fragment into the history.
- `route(route, options)`: This method is used to match a route to the current URL.
- `matchRoot()`: This method is used to check if the current URL matches the root route.
- `atRoot()`: This method is used to check if the current URL is at the root.

### History Events

- `Backbone.history.started`: This event is fired when the history is started.
- `Backbone.history.stopped`: This event is fired when the history is stopped.
- `Backbone.history.navigated`: This event is fired when the history is navigated.

### History Configuration

- `History.started`: This property is a boolean that indicates whether the history is started.
- `History.interval`: This property is a number that specifies the interval to poll for hash changes.
- `History.checkUrl`: This property is a function that is used to check if a URL has changed.

### History Example

```javascript
Backbone.history.navigate('#/});
```
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var m = new Array(16); for (var i = 0; i < 16; ++i) m[i] = this._block.readInt32LE(i * 4);

var el = fn1(el, bl, cl, dl, m[1], 0x00000000, 14); bl = rotl(bl, 10); el = fn2(el, al, bl, cl, dl, m[10], 0x00000000, 14); cl = rotl(cl, 10);

fn3(al, bl, cl, dl, el, m[15], 0x00000000, 15); dl = rotl(dl, 10); al = fn1(al, bl, cl, dl, m[14], 0x00000000, 9); dl = rotl(dl, 10); al = fn1(al, bl, cl, dl, m[13], 0x00000000, 8); cl = rotl(cl, 10);

el = fn2(el, al, bl, cl, dl, m[9], 0x00000000, 15); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[8], 0x00000000, 14); bl = rotl(bl, 10);

el = fn1(el, al, bl, cl, dl, m[7], 0x00000000, 13); el = rotl(el, 10); bl = fn1(bl, al, cl, dl, m[6], 0x00000000, 12); bl = rotl(bl, 10);

el = fn2(el, al, bl, cl, dl, m[5], 0x00000000, 11); el = rotl(el, 10); bl = fn1(bl, al, cl, dl, m[4], 0x00000000, 10); el = fn2(el, al, bl, cl, dl, m[3], 0x00000000, 9); el = rotl(el, 10); bl = fn1(bl, al, cl, dl, m[2], 0x00000000, 8); bl = rotl(bl, 10);

el = fn3(el, al, bl, cl, dl, m[1], 0x00000000, 7); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[0], 0x00000000, 6); al = rotl(al, 10);

el = fn1(el, al, bl, cl, dl, m[15], 0x00000000, 15); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[14], 0x00000000, 14); bl = rotl(bl, 10);

el = fn2(el, al, bl, cl, dl, m[13], 0x00000000, 13); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[12], 0x00000000, 12); bl = rotl(bl, 10);

el = fn3(el, al, bl, cl, dl, m[11], 0x00000000, 11); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[10], 0x00000000, 10); el = rotl(el, 10);

el = fn3(el, al, bl, cl, dl, m[9], 0x00000000, 9); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[8], 0x00000000, 8); bl = rotl(bl, 10);

el = fn3(el, al, bl, cl, dl, m[7], 0x00000000, 7); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[6], 0x00000000, 6); bl = rotl(bl, 10);

el = fn3(el, al, bl, cl, dl, m[5], 0x00000000, 5); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[4], 0x00000000, 4); bl = rotl(bl, 10);

el = fn3(el, al, bl, cl, dl, m[3], 0x00000000, 3); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[2], 0x00000000, 2); bl = rotl(bl, 10);

el = fn3(el, al, bl, cl, dl, m[1], 0x00000000, 1); el = rotl(el, 10); bl = fn2(bl, al, cl, dl, m[0], 0x00000000, 0); al = rotl(al, 10);

el = fn4(el, al, bl, cl, dl, m[15], 0x00000000, 15); el = rotl(el, 10); bl = fn3(bl, al, cl, dl, m[14], 0x00000000, 14); bl = rotl(bl, 10);

el = fn4(el, al, bl, cl, dl, m[13], 0x00000000, 13); el = rotl(el, 10); bl = fn3(bl, al, cl, dl, m[12], 0x00000000, 12); bl = rotl(bl, 10);

el = fn4(el, al, bl, cl, dl, m[11], 0x00000000, 11); el = rotl(el, 10); bl = fn3(bl, al, cl, dl, m[10], 0x00000000, 10); el = rotl(el, 10);

el = fn4(el, al, bl, cl, dl, m[9], 0x00000000, 9); el = rotl(el, 10); bl = fn3(bl, al, cl, dl, m[8], 0x00000000, 8); bl = rotl(bl, 10);

el = fn4(el, al, bl, cl, dl, m[7], 0x00000000, 7); el = rotl(el, 10); bl = fn3(bl, al, cl, dl, m[6], 0x00000000, 6); bl = rotl(bl, 10);

el = fn4(el, al, bl, cl, dl, m[5], 0x00000000, 5); el = rotl(el, 10); bl = fn3(bl, al, cl, dl, m[4], 0x00000000, 4); bl = rotl(bl, 10);
function rotl (x, n) {
  return (x << n) | (x >>> (32 - n))
}

function fn1 (a, b, c, d, e, m, k, s) {
  return (rotl((a + (b ^ c ^ d) + m + k) | 0, s) + e) | 0
}

function fn2 (a, b, c, d, e, m, k, s) {
  return (rotl((a + ((b & c) | ((~b) & d)) + m + k) | 0, s) + e) | 0
}

function fn3 (a, b, c, d, e, m, k, s) {
  return (rotl((a + ((b | (~c)) ^ d) + m + k) | 0, s) + e) | 0
}

function fn4 (a, b, c, d, e, m, k, s) {
  return (rotl((a + ((b & d) | (c & (~d))) + m + k) | 0, s) + e) | 0
}

function fn5 (a, b, c, d, e, m, k, s) {
  return (rotl((a + (b ^ c | (d - d)) + m + k) | 0, s) + e) | 0
}

module.exports = RIPEMD160


// object stream flag to indicate whether or not this stream
// contains buffers or objects.
this.objectMode = !!options.objectMode;
// the point at which write() starts returning false
// Note: 0 is a valid value, means that we always return false if
// the entire buffer is not flushed immediately on write()
var hwm = options.highWaterMark;
var defaultHwm = this.objectMode ? 16 : 16 * 1024;
this.highWaterMark = hwm || hwm === 0 ? hwm : defaultHwm;
// cast to ints.
this.highWaterMark = Math.floor(this.highWaterMark);
// if _final has been called
this.finalCalled = false;
// drain event flag.
this.needDrain = false;
// at the start of calling end()
this.ending = false;
// when end() has been called, and returned
this.ended = false;
// when 'finish' is emitted
this.finished = false;
// has it been destroyed
this.destroyed = false;
// should we decode strings into buffers before passing to _write?
this.noDecode = options.decodeStrings === false;
this.decodeStrings = !this.noDecode;
// Crypto is kind of old and crusty. Historically, its default string
// encoding is 'binary' so that we have to make this configurable.
// Everything else in the universe uses 'utf8', though.
this.defaultEncoding = options.defaultEncoding || 'utf8';
// not an actual buffer we keep track of, but a measurement
// of how much we're waiting to get pushed to some underlying
// socket or file.
this.length = 0;
// a flag to see when we're in the middle of a write.
this.writing = false;
// when true all writes will be buffered until .uncork() call
this.corked = 0;
// a flag to be able to tell if the onwrite cb is called
// immediately, or on a later tick. We set this to true at first, because any
// actions that shouldn't happen until \"later\" should generally also
// not happen before the first write call.
this.sync = true;
// a flag to know if we're processing previously buffered items, which
// may call the _write() callback in the same tick, so that we
// don't // end up in an overlapped onwrite situation.
this.bufferedRequest = null;
this.lastBufferedRequest = null;
// number of pending user-supplied write callbacks
// this must be 0 before \"finish\" can be emitted
this.pendingcb = 0;
// emit prefinish if the only thing we're waiting for is _write cb
// This is relevant for synchronous Transform
this.prefinished = false;
// True if the error was already emitted and should not be thrown again
this.errorEmitted = false;
// count buffered requests
this.bufferedRequestCount = 0;
// allocate the first CorkedRequest, there is always
// one allocated and free to use, and we maintain at most two
this.corkedRequestsFree = new CorkedRequest(this);
// Test _writableState for inheritance to account for Duplex
// streams,\n// whose prototype chain only points to Readable.\n//\n// var realHasInstance = require('object-prototypematcher');
// var assert = require('assert');
//\n// function assertEqual(a, b) {
//\n// if (a !== b) {\n// throw new Error('Assertion failed: ' + a + ' !== ' + b);
//\n// }\n//\n//\n//\n// Object.prototype.__defineGetter__ = function() {\n// try {\n// this._writableState = new WritableState(options, this);
//\n// this.writable = true;
//\n// if (typeof options.write === 'function')
// getBuffer = function getBuffer() {\n// var current = this.bufferedRequest;
// var out = [];\n// while (current) {
// out.push(current);
// current = current.next;\n// }\n// return out;\n// }\n//\n//\n//\n// Object.prototype.__defineProperty = function() {\n// try {\n// this._writableState = new WritableState(options, this);
//\n// this.writable = true;
//\n// if (typeof options.write === 'function')
// this._writableState = new WritableState(options, this);
//\n// legacy
//\n// this.writable = true;
//\n// if (options) {
//\n// if (typeof options.write === 'function')
// this._writableState = options.write;
//\n// if (typeof options.write == function)
// this._writableState = options.write;
//\n// if (typeof options.write == function)
// this._writableState = options.write;
//\n// if (typeof options.write == function)
// this._writableState = options.write;
this._writev = options.writev;

if (typeof options.destroy === 'function') this._destroy = options.destroy;

if (typeof options.final === 'function') this._final = options.final;

Stream.call(this);

Writable.prototype.pipe = function () {
  this.emit('error', new Error('Cannot pipe, not readable'));
  return false;
};

function writeAfterEnd(stream, cb) {
  var er = new Error('write after end');
  // TODD: defer error events consistently everywhere, not just the cb
  stream.emit('error', er);
  processNextTick(cb, er);
}

Writable.prototype.cork = function () {
  var state = this._writableState;
  state.corked++;
};

Writable.prototype.uncork = function () {
  var state = this._writableState;

  if (state.corked) {
    state.corked--;

    if (!state.writing && !state.corked && !state.finished && !state.bufferProcessing && state.bufferedRequest) clearBuffer(this, state);
  }
};

Writable.prototype.setDefaultEncoding = function setDefaultEncoding(encoding) {
  // node::ParseEncoding() requires lower case.
  if (typeof encoding === 'string') encoding = encoding.toLowerCase();
  if (!(['hex', 'utf8', 'utf-8', 'ascii', 'binary', 'base64', 'ucs2', 'ucs-2', 'utf16le', 'utf-16le',
      'raw'].indexOf((encoding + '').toLowerCase()) > -1)) throw new TypeError('Unknown encoding: ' + encoding);

  this._writableState.defaultEncoding = encoding;
  return this;
};

function decodeChunk(state, chunk, encoding) {
  if (!state.objectMode && state.decodeStrings !== false && typeof chunk === 'string') {
    chunk = Buffer.from(chunk, encoding);
  }
  return chunk;
}

// if we're already writing something, then just put this
// in the queue, and wait our turn.  Otherwise, call _write
// If we return false, then we need a drain event, so set that
// flag
function writeOrBuffer(stream, state, isBuf, chunk, encoding, cb) {
  if (!isBuf) {
    var newChunk = decodeChunk(state, chunk, encoding);
    if (chunk !== newChunk) {
      isBuf = true;
      encoding = 'buffer';
      chunk = newChunk;
    }
  }
  var len = state.objectMode ? 1 : chunk.length;

  state.length += len;

  var ret = state.length < state.highWaterMark;

  if (state.needDrain) {
    state.needDrain = false;
  }

  if (state.writing || state.corked) {
    var last = state.lastBufferedRequest;

    state.lastBufferedRequest = {
      chunk: chunk,
      encoding: encoding,
      isBuf: isBuf,
      callback: cb,
      next: null
    };
  }

  if (last) {
    last.next = state.lastBufferedRequest;
  }

  doWrite(stream, state, false, len, chunk, encoding, cb);

  if (!ret) state.needDrain = true;

  if (state.writing || state.corked) {
    var last = state.lastBufferedRequest;
    doWrite(stream, state, false, len, chunk, encoding, cb);

    if (state.ended) writeAfterEnd(stream, cb);
  }
}

function doWrite(stream, state, writev, len, chunk, encoding, cb) {
  state.writelen = len;

  try {
    state.writecb = cb;
    state.writing = true;

    if (writev) {
      stream._writev(chunk, state.onwrite); // defer the callback if we are being called synchronously
    } else {
      doWrite(stream, state, false, len, chunk, encoding, cb);
    } // this can emit finish, and it will always happen
  } finally {
    state.writecb = null;
  }

  if (writev) {
    if (stream._writev) stream._writev(chunk, state.onwrite);
    if (stream._writev && !stream._writev.chunk) {
      // this._writev = options.writev;

      if (typeof options.destroy === 'function') this._destroy = options.destroy;

      if (typeof options.final === 'function') this._final = options.final;

      Stream.call(this);

      Writable.prototype.pipe = function () {
        this.emit('error', new Error('Cannot pipe, not readable'));
        return false;
      };}

  }

  if (state.ended) writeAfterEnd(stream, cb);

  if (state.corked) {
    state.corked--;

    if (!state.writing && !state.corked && !state.finished && !state.bufferProcessing && state.bufferedRequest) clearBuffer(this, state);
  }

  doWrite(stream, state, false, len, chunk, encoding, cb);

  if (state.ended) writeAfterEnd(stream, cb);

  if (state.corked) {
    state.corked--;

    if (!state.writing && !state.corked && !state.finished && !state.bufferProcessing && state.bufferedRequest) clearBuffer(this, state);
  }

var sync = state.sync;
var cb = state.writecb;

onwriteStateUpdate(state);
if (er) onwriteError(stream, state, sync, cb);
else {
  // Check if we're actually ready to finish, but don't emit yet
  var finished = needFinish(state);

  if (!finished && !state.corked && !state.bufferProcessing && state.bufferedRequest) {
    clearBuffer(stream, state);
  } else if (sync) {
    asyncWrite(afterWrite, stream, state, cb);
  } else {
    afterWrite(state, cb);
  }
}

function afterWrite(stream, state, cb) {
  if (!finished) onwriteDrain(stream, state, cb);

  state.pendingcb--;
  cb();
  finishMaybe(stream, state);
}

// Must force callback to be called on nextTick, so
// that we don't emit 'drain' before the write() consumer gets the 'false' return value, and has a chance to attach a
'drain' listener
function onwriteDrain(stream, state) {
  if (state.length === 0 && state.needDrain) {
    state.needDrain = false;
    stream.emit('drain');
  }
}

// if there's something in the buffer waiting, then process
it asynchronously.
function clearBuffer(stream, state) {
  state.bufferProcessing = true;
  var entry = state.bufferedRequest;

  if (stream._writev && entry && entry.next) {
    var l = state.bufferedRequestCount;
    var buffer = new Array(l);
    var holder = state.corkedRequestsFree;

    holder.entry = entry;
    var count = 0;
    var allBuffers = true;
    while (entry) {
      buffer[count] = entry;
      if (!entry.isBuf) allBuffers = false;
      entry = entry.next;
      count += 1;
    }
    buffer.allBuffers = allBuffers;

    doWrite(stream, state, cb);
  } else {
    // Slow case, write chunks one-by-one
    while (entry) {
      var chunk = entry.chunk;
      var encoding = entry.encoding;
      var cb = entry.callback;

      doWrite(stream, state, cb);
      entry = entry.next;
    }

    if (entry === null) state.lastBufferedRequest = null;
  }

  state.bufferedRequestCount = 0;
  state.bufferedRequest = entry;
  state.bufferProcessing = false;
}

Writable.prototype._write = function (chunk, encoding, cb) {
  cb(new Error('_write() is not implemented'));
};

Writable.prototype._writev = null;

Writable.prototype.end = function (chunk, encoding, cb) {
  var state = this._writableState;

  if (typeof chunk === 'function') {
    cb = chunk;
    chunk = null;
    encoding = null;
  } else if (typeof encoding === 'function') {
    cb = chunk;
    chunk = null;
    encoding = null;
  } else if (typeof encoding === function) {
    cb = chunk;
    chunk = null;
    encoding = null;
  } else if (cb) {
    doWrite(stream, state, cb);
  }
}

// processed, so move the buffer counter past them.
function onwriteDrain(stream, state) {
  if (state.length === 0 && state.needDrain) {
    state.needDrain = false;
    stream.emit('drain');
  }
}

function needFinish(state) {
  return state.ending && state.length === 0 &&
  state.bufferedRequest === null && !state.finished && !state.writing;
}

function finishMaybe(stream, state) {
  var need = needFinish(state);
  if (need) {
    prefinish(stream, state, cb);
    if (state.pendingcb === 0) {
      // Fast case, write everything using _writev()
      var l = state.bufferedRequestCount;
      var var holder = state.corkedRequestsFree;

      holder.entry = entry;
      var var count = 0;
      var var allBuffers = true;
      while (entry) {
        buffer[count] = entry;
        if (!entry.isBuf) allBuffers = false;
        entry = entry.next;
        count += 1;
      }
      buffer.allBuffers = allBuffers;

      doWrite(stream, state, cb);
    } else {
      // Slow case, write chunks one-by-one
      while (entry) {
        var chunk = entry.chunk;
        var encoding = entry.encoding;
        var cb = entry.callback;

        doWrite(stream, state, cb);
        entry = entry.next;
      }

      if (entry === null) state.lastBufferedRequest = null;
    }

    state.bufferedRequestCount = 0;
    state.bufferedRequest = entry;
    state.bufferProcessing = false;
  }

  state.bufferProcessing = true;
  var entry = state.bufferedRequest;

  if (stream._writev && entry && entry.next) {
    var l = state.bufferedRequestCount;
    var buffer = new Array(l);
    var holder = state.corkedRequestsFree;

    holder.entry = entry;
    var count = 0;
    var allBuffers = true;
    while (entry) {
      buffer[count] = entry;
      if (!entry.isBuf) allBuffers = false;
      entry = entry.next;
      count += 1;
    }
    buffer.allBuffers = allBuffers;

    doWrite(stream, state, cb);
  } else {
    // Slow case, write chunks one-by-one
    while (entry) {
      var chunk = entry.chunk;
      var encoding = entry.encoding;
      var cb = entry.callback;

      doWrite(stream, state, cb);
      entry = entry.next;
    }

    if (entry === null) state.lastBufferedRequest = null;
  }

  state.bufferedRequestCount = 0;
  state.bufferedRequest = entry;
  state.bufferProcessing = false;
}

Writable.prototype._write = function (chunk, encoding, cb) {
  cb(new Error('_write() is not implemented'));
};

Writable.prototype._writev = null;

Writable.prototype.end = function (chunk, encoding, cb) {
  var state = this._writableState;

  if (typeof chunk === 'function') {
    cb = chunk;
    chunk = null;
    encoding = null;
  } else if (typeof encoding === 'function') {
    cb = chunk;
    chunk = null;
    encoding = null;
  } else if (cb) {
    doWrite(stream, state, cb);
  }
}

// processed, so move the buffer counter past them.
function onwriteDrain(stream, state) {
  if (state.length === 0 && state.needDrain) {
    state.needDrain = false;
    stream.emit('drain');
  }
}

function needFinish(state) {
  return state.ending && state.length === 0 &&
  state.bufferedRequest === null && !state.finished && !state.writing;
}

function finishMaybe(stream, state) {
  var need = needFinish(state);
  if (need) {
    prefinish(stream, state, cb);
    if (state.pendingcb === 0) {
      // Fast case, write everything using _writev()
      var l = state.bufferedRequestCount;
      var var holder = state.corkedRequestsFree;

      holder.entry = entry;
      var var count = 0;
      var var allBuffers = true;
      while (entry) {
        buffer[count] = entry;
        if (!entry.isBuf) allBuffers = false;
        entry = entry.next;
        count += 1;
      }
      buffer.allBuffers = allBuffers;

      doWrite(stream, state, cb);
    } else {
      // Slow case, write chunks one-by-one
      while (entry) {
        var chunk = entry.chunk;
        var encoding = entry.encoding;
        var cb = entry.callback;

        doWrite(stream, state, cb);
        entry = entry.next;
      }

      if (entry === null) state.lastBufferedRequest = null;
    }

    state.bufferedRequestCount = 0;
    state.bufferedRequest = entry;
    state.bufferProcessing = false;
}

Writable.prototype._write = function (chunk, encoding, cb) {
  cb(new Error('_write() is not implemented'));
};

Writable.prototype._writev = null;

Writable.prototype.end = function (chunk, encoding, cb) {
  var state = this._writableState;

  if (typeof chunk === 'function') {
    cb = chunk;
    chunk = null;
    encoding = null;
  } else if (typeof encoding === 'function') {
    cb = chunk;
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  } else if (cb) {
    doWrite(stream, state, cb);
  }
}

// processed, so move the buffer counter past them.
function onwriteDrain(stream, state) {
  if (state.length === 0 && state.needDrain) {
    state.needDrain = false;
    stream.emit('drain');
  }
}
function (value) { // we ignore the value if the stream
            // has not been initialized yet
    if (!this._writableState) { return; } 
}
    // backward compatibility, the user is explicitly
    // managing destroyed
} this._writableState.destroyed = value; 
} }));

Writable.prototype.destroy = destroyImpl.destroy; 

Writable.prototype._undestroy = destroyImpl.undestroy; 

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Writable.prototype.destroy = function (value) {
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Writable.prototype._destroy = destroyImpl.destroyed;
1) if ((buf[1] & 0xC0) !== 0x80) {
    self.lastNeed = 1;
    return '\ufffd'.repeat(p + 1);
} else if (self.lastNeed > 2 && buf.length > 2) {
    if ((buf[2] & 0xC0) !== 0x80) {
      self.lastNeed = 2;
      return '\ufffd'.repeat(p + 2);
    }
    if (self.lastNeed > 2 && buf.length > 2) {
      if ((buf[2] & 0xC0) !== 0x80) {
        self.lastNeed = 2;
        return '\ufffd'.repeat(p + 2);
      }
    }
  }

// Attempts to complete a multi-byte UTF-8 character using bytes from a Buffer.
function utf8FillLast(buf) {
  var p = this.lastTotal - this.lastNeed;
  var r = utf8CheckExtraBytes(this, buf, p);
  if (r !== undefined) return r;
  if (this.lastNeed > 2 && buf.length > 2) {
    if ((buf[2] & 0xC0) !== 0x80) {
      self.lastNeed = 2;
      return '\ufffd'.repeat(p + 2);
    }
  }
  buf.copy(this.lastChar, 0, buf.length);
  this.lastNeed -= buf.length;
  return this.lastChar.toString(this.encoding, 0, this.lastTotal);
}

// For UTF-8, a replacement character for each buffered byte of a (partial) character needs to be added to the output.
function utf8End(buf) {
  var r = buf && buf.length ? this.write(buf) : ''; 
  if (this.lastNeed) return r + '\ufffd'.repeat(this.lastTotal - this.lastNeed);
  return r;
}

function base64Text(buf, i) {
  var n = (buf.length - i) % 3;
  if (n === 0) return buf.toString('base64', i);
  this.lastNeed = 3 - n;
  this.lastTotal = 3;
  if (n === 1) {
    this.lastChar[0] = buf[buf.length - 1];
  } else {
    this.lastChar[0] = buf[buf.length - 2];
    this.lastChar[1] = buf[buf.length - 1];
  }
  return buf.toString('base64', i, buf.length - n);
}

function base64End(buf) {
  var r = buf && buf.length ? this.write(buf) : ''; 
  if (this.lastNeed) return r + this.lastChar.toString('base64', 0, 3 - this.lastNeed);
  return r;
}

function simpleWrite(buf) {
  return buf.toString(this.encoding);
}

function simpleEnd(buf) {
  return buf && buf.length ? this.write(buf) : ''; 
}


function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; } return function (d, b) {
extendStatics(d, b);
    function __() { this.constructor = d; } 
    function extendStatics(d, b) {
        if (b !== null) Object.defineProperty(d, b === void 0 ? 'constructor' : b, {
            enumerable: true, configurable: true, writable: true, value: function () {
                return function (d, b) {
                    if (b !== null) extendStatics(d, b);
                }}
        });
    };
    return function (d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };
}();

var __assign = (this && this.__assign) || Object.assign || function (t) {
    for (var s, i = 1, n = arguments.length; i < n; i++) {
        s = arguments[i];
        for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];
    }
    return t;
};

Object.defineProperty(exports, '__esModule', { value: true });

var utils = require('./utils');

var backbonePatch = require('./backbone-patch');

var Backbone = require('backbone');

var $ = require('jquery');

var nativeview_1 = require('./nativeview');

var widgets_1 = require('@phosphor/widgets');

var messaging_1 = require('@phosphor/messaging');

var version_1 = require('./version');

/**
 * Replace model ids with models recursively.
 */
function unpack_models(value, manager) {
    var unpacked;
    if (Array.isArray(value)) {
        unpacked = [];
        value.forEach(function (sub_value, key) {
            unpacked.push(unpack_models(sub_value, manager));
        });
        return Promise.all(unpacked);
    }
    else if (value instanceof Object) {
        unpacked = {};
        Object.keys(value).forEach(function (key) {
            unpacked[key] = unpack_models(value[key], manager);
        });
        return utils.resolvePromisesDict(unpacked);
    }
    else if (typeof value === 'string' && value.slice(0, 10) === 'IPY_MODEL_') {
        // get_model returns a promise already
        return Promise.resolve(manager.get_model(value.slice(10, value.length)));
    }
    else {
        return Promise.resolve(value);
    }
}

exports.unpack_models = unpack_models;

var WidgetModel = /** @class */ (function (_super) {
    __extends(WidgetModel, _super);
    function WidgetModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    WidgetModel.prototype.defaults = function () {
        return {
            _model_module: '@jupyter-widgets/base',
            _model_name: 'WidgetModel',
            _model_module_version: version_1.JUPYTER_WIDGETS_VERSION,
            _view_module: '@jupyter-widgets/base',
            _view_name: null,
            _view_module_version: version_1.JUPYTER_WIDGETS_VERSION,
            _view_count: null,
        };
    }
    WidgetModel.prototype.initialize = function (attributes, options) {
        _super.prototype.initialize.call(this, attributes, options);
        // Attributes should be initialized here, since user initialization may depend on it
        this.widget_manager = options.widget_manager;
        this.model_id = options.model_id;
        this.views = Object.create(null);
        this.state_change = Promise.resolve();
        this._closed = false;
        this._state_lock = null;
        this._msg_buffer = null;
        this._msg_buffer_callbacks = null;
        this._pending_msgs = 0;
        // _buffered_state_diff must be created *after* the super.initialize() call above.
        this._buffered_state_diff = {};
        if (this.widget_manager) {
            this.widget_manager = options.widget_manager;
            this.model_id = options.model_id;
            var comm = options.comm;
            this.views = Object.create(null);
            this.state_change = Promise.resolve();
            this._closed = false;
            this._state_lock = null;
            this._msg_buffer = null;
            this._msg_buffer_callbacks = null;
            this._pending_msgs = 0;
            // _buffered_state_diff must be created *after* the super.initialize() call above.
            this._buffered_state_diff = {};
        } else {
            this.widget_manager = options.widget_manager;
            this.model_id = options.model_id;
            var comm = options.comm;
            this.views = Object.create(null);
            this.state_change = Promise.resolve();
            this._closed = false;
            this._state_lock = null;
            this._msg_buffer = null;
            this._msg_buffer_callbacks = null;
            this._pending_msgs = 0;
            // _buffered_state_diff must be created *after* the super.initialize() call above.
            this._buffered_state_diff = {};
        };
    }
    WidgetModel.prototype.send = function (content, callbacks, buffers) {
        if (this.widget_manager) {
            var data = {
                method: 'custom',
                content: content
            };
            this.widget_manager.send(this, content, callbacks, buffers);
        }
    }
    WidgetModel.prototype.close
```javascript
var this = this;
if (comm_closed === void 0) { comm_closed = false; }
if (comm_closed & & !comm_closed) {
  this.comm.close();
  this.stopListening();
}

this.trigger('destroy', this);
if (this.comm) {
  delete this.comm;
}

// Delete all views of this model
var views = Object.keys(this.views).map(function (id) {
  return this.views[id].then(function (view) {
    return view.remove();
  });
});

delete this.views;
return Promise.all(views).then(function () {
  return;
});

* // Handle when a widget comm is closed.

WidgetModel.prototype._handle_comm_closed = function (msg) {
  this.trigger('comm:close');
}

this.close(true);

var this = this;
var method = msg.content.data.method;
var switch (method) {
  case 'update':
    this.state_change = this.state_change
      .then(function () {
        var state = msg.content.data.state;
        var buffer_paths = msg.content.data.buffer_paths || [];
        // Make sure the buffers are DataViews
        var buffers = (msg.buffers || []).map(function (b) {
          if (b instanceof DataView) {
            return b;
          } else {
            return new DataView(b instanceof ArrayBuffer ? b : b.buffer);
          }
        });
        utils.put_buffers(state, buffer_paths, buffers);
        this._msg_buffer = null;
        this._msg_buffer_callbacks = null;
        this.send_sync_message(this._msg_buffer,
          this.model_id, true));
        return;
      })
    .catch(function (e) {
      console.error('Error setting state: ' + e.message);
    });
    return Promise.resolve();
  case 'custom':
    var state = msg.content.data.state;
    var return_value = backbonePatch.set.call(this, key, val, options);
    return Promise.resolve();
  default:
    this.state_change
      .then(function (state) {
        this._state_lock = state;
        try {
          this.set(state);
        }
        catch (e) {
          throw e;
        }
        finally {
          this._state_lock = null;
        }
      })
    .catch(function (e) {
      throw e;
    });
    return;
}
```
the kernel, so we delete them out of attrs if \n they haven't changed from their state_lock.value.\n The state lock could be null or undefined (if set is being called from the **initialzier**). \n if 
 (this.state_lock) \n (for (var _i = 0, _a = Object.keys(this.state_lock); _i < _a.length; _i++) \n var key_i = _a[_i];\n if (attrs[key_i] === this.state_lock[key_i]) \n delete 
 attrs[key_i];\n )\n )\n )\n )\n )\n var msgState = this.serialize(attrs);\n if (Object.keys(msgState).length > 0) \n if 
 this message was sent via backbone itself, it will not \n have any callbacks. It's important that we create 
callbacks so we can listen for status messages, etc...\n var callbacks = options.callbacks || \n this.callbacks();\n // Check throttle. \n if (this.pending_msgs >= 1) \n // The throttle has 
 been exceeded, buffer the current msg so\n // it can be sent once the kernel has finished processing\n // some of the existing messages.\n // Combine updates if it is a 'patch' sync, otherwise replace updates\n switch (method) {\n case 'patch':\n this.msg_buffer = 
 this.callbacks();\n break;\n case 'update':\n case 'create':\n this.msg_buffer = msgState;\n break;\n default:}\n throw 'unrecognized syncing method';\n )\n )\n )\n )\n )\n else {\n // We haven't exceeded the throttle, send the message like\n // normal.\n this.send_sync_message(attrs, callbacks);\n // Since the comm is a one-way communication, assume the 
 message\n // arrived and was processed successfully.\n // Don't call options.success since we don't \n have a model back from\n // the server. Note that this means we don't have the Backbone\n // 'sync' event.\n )\n )\n )\n )\n **\n * Serialize widget state.\n * A serializer is a function \n which takes in a state attribute and a widget,\n * and synchronously returns a JSONable object. The returned \n object will\n * have toJSON called if possible, and the final result should be a\n * primitive object that is a\n * snapshot of the widget state that may have\n * binary array buffers.\n * WidgetModel.prototype.serialize = \n function (state) {\n var serializers = this.constructor.serializers || \n }\n for (var _i = 0, _a = \n Object.keys(state); _i < _a.length; _i++) \n var k = _a[_i];\n try {\n if (serializers[k] &&\n serializers[k].serialize) {\n state[k] = (serializers[k].serialize)(state[k], this);\n }\n else {\n // the default serializer just deep-copies the object\n state[k] = \n JSON.parse(JSON.stringify(state[k]));\n }\n if (state[k] && state[k].toJSON) {\n state[k] = state[k].toJSON();\n }\n catch (e) {\n console.error('Error serializing\n widget state attribute: ' + k);\n throw e;\n }\n )\n )\n )\n )\n )\n var _this = this;\n if (callbacks === void 0) { callbacks = []; }\n try {\n callbacks.iopub =
a view
* @returns the view or a promise to the view.
* WidgetView.prototype.render = function () {
  return WidgetView.prototype.create_child_view = function (child_model, options) {
    if (options === void 0) {
      options = {};
    } var that = this;
    options = __assign({ parent: this }, options);
    return this.model.widget_manager.create_view(child_model, options)
      .catch(utils.reject('Could not create child view', true));
  };
  WidgetView.prototype.create_child_view = function (child_model, options) {
    if (options === void 0) {
      options = {};
    } var that = this;
    options = __assign({ parent: this }, options);
    return this.model.widget_manager.create_view(child_model, options)
      .catch(utils.reject('Could not create child view', true));
  };
  WidgetView.prototype.render = function () {
    return this.model.callback(this);
  };
  WidgetView.prototype.callbacks = function () {
    return this.model.callbacks(this);
  };
  WidgetView.prototype.send = function (content, buffers) {
    this.model.send(content, this.callbacks(), buffers);
  };
  WidgetView.prototype.touch = function () {
    this.model.save_changes(this.callbacks());
  };
  WidgetView.prototype.remove = function () {
    // Raise a remove event when the view is removed.
    this.super.prototype.remove.call(this);
    this.trigger('remove');
    return this;
  };
  return WidgetView;
}(nativeview_1.NativeView));
exports.WidgetView = WidgetView;
var JupyterPhosphorWidget = /** @class */ (function (_super) {
  __extends(JupyterPhosphorWidget, _super);
  function JupyterPhosphorWidget(options) {
    var _this = this;
    var view = options.view;
    delete options.view;
    _this = _super.call(this, options) || this;
    _this._view = view;
    return _this;
  }
  JupyterPhosphorWidget.prototype.dispose = function () {
    if (this.isDisposed) {
      return;
    }
    _super.prototype.dispose.call(this);
    if (this._view) {
      this._view.remove();
    }
    this._view = null;
  };
  JupyterPhosphorWidget.prototype.processMessage = function (msg) {
    _super.prototype.processMessage.call(this, msg);
    this._view.processPhosphorMessage(msg);
  };
  return JupyterPhosphorWidget;
}(widgets_1.Widget));
exports.JupyterPhosphorWidget = JupyterPhosphorWidget;
var DOMWidgetView = /** @class */ (function (_super) {
  __extends(DOMWidgetView, _super);
  function DOMWidgetView() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  DOMWidgetView.prototype.initialize = function (parameters) {
    var _this = this;
    _super.prototype.initialize.call(this, parameters);
    this.listenTo(this.model, 'change:_dom_classes', function (model, new_classes) {
      var old_classes = model.previous('_dom_classes');
      _this.update_classes(old_classes, new_classes);
    });
    this.layoutPromise = Promise.resolve();
    this.listenTo(this.model, 'change:layout', function (model, value) {
      _this.setLayout(value, model.previous('layout'));
    });
    this.stylePromise = Promise.resolve();
    this.listenTo(this.model, 'change:style', function (model, value) {
      _this.setStyle(value, model.previous('style'));
    });
    this.displayed.then(function () {
      _this.update_classes([], _this.model.get('_dom_classes'));
      _this.setLayout(_this.model.get('layout'));
      _this.setStyle(_this.model.get('style'));
    });
    this._comm_live_update();
    this.listenTo(this.model, 'comm_live_update', function () {
      _this._comm_live_update();
    });
    DOMWidgetView.prototype.set_layout = function (layout, old_layout) {
      var _this = this;
      if (layout) {
        this.layoutPromise = this.layoutPromise.then(function (old_layout_view) {
          if (old_layout_view) {
            old_layout_view.unlayout();
            this.stopListening(old_layout_view.model);
          }
          return this.create_child_view(layout).then(function (view) {
            // Trigger the displayed event of the child view.
            return _this.displayed.then(function () {
              view.trigger('displayed');
              _this.listenTo(view.model, 'change', function () {
                // Post (asynchronous) so layout changes can take
                // effect first.
                messaging_1.MessageLoop.postMessage(_this.pWidget, widgets_1.Widget.ResizeMessage.UnknownSize);
              });
              messaging_1.MessageLoop.postMessage(_this.pWidget, widgets_1.Widget.ResizeMessage.UnknownSize);
            });
          }).catch(utils.reject('Could not add LayoutView to DOMWidgetView', true));
        } else {
          this.layoutPromise = this.create_child_view(layout).then(function (view) {
            return _this.displayed.then(function () {
              _this.listenTo(view.model, 'change', function () {
                messaging_1.MessageLoop.postMessage(_this.pWidget, widgets_1.Widget.ResizeMessage.UnknownSize);
              });
            });
          }).catch(utils.reject('Could not add LayoutView to DOMWidgetView', true));
        }
      }
      return this;
    };
    return DOMWidgetView;
  };
  return DOMWidgetView;
}(nativeview_1.NativeView));
exports.DOMWidgetView = DOMWidgetView;
this.stylePromise = this.stylePromise.then(function(oldStyleView) {
    // Trigger the displayed event of the child view.
    return this.create_child_view(style).then(function(view) {
        // Unlike for the layout attribute, style changes don't
        // trigger phosphor resize messages.
        return view.trigger('displayed');
    });
});

DOMWidgetView.prototype.update_classes = function(old_classes, new_classes, el) {
    if (el === undefined) {
        el = this.el;
    }
    var key = this.model.previous(trait_name);
    var old_classes = class_map[key] ? class_map[key] : [];
    var new_classes = class_map[key] ? class_map[key] : [];
    this.update_classes(old_classes, new_classes, el || this.el);
}

DOMWidgetView.prototype.set_mapped_classes = function(class_map, trait_name, el) {
    var key = this.model.get(trait_name);
    var new_classes = class_map[key] ? class_map[key] : [];
    this.update_classes([], new_classes, el || this.el);
}

DOMWidgetView.prototype._setElement = function(el) {
    if (this.pWidget) {
        this.pWidget.dispose();
    }
    this.$el = el instanceof $ ? el : $(el);
    this.el = this.$el[0];
    this.pWidget = new JupyterPhosphorWidget({
        node: el,
        view: this
    });
}

DOMWidgetView.prototype.remove = function() {
    if (this.pWidget) {
        this.pWidget.dispose();
    }
    return _super.prototype.remove.call(this);
}

DOMWidgetView.prototype.processPhosphorMessage = function(msg) {
    switch (msg.type) {
        case 'after-attach':
            this.trigger('displayed');
            break;
    }
}

DOMWidgetView.prototype._comm_live_update = function() {
    if (this.model.comm_live) {
        this.pWidget.removeClass('jupyter-widgets-disconnected');
    } else {
        this.pWidget.addClass('jupyter-widgets-disconnected');
    }
}

$(()).catch(utils.reject(CouldNotaddStyleView, true));

exports.DOMWidgetView = DOMWidgetView;


/*-----
------------------------------------------------------------------------
| Copyright (c) 2014-2017, PhosphorJS
|
| Distributed under the terms of the BSD 3-Clause License.
|
| The full license is in the file LICENSE, distributed with this software.
|----------------------------------------------------------------------------
*/

var algorithm_1 = require('@phosphor/algorithm');
var domutils_1 =


Open Source Used In Secure Workload 3.6.1.1 20217
BoxLayout = (function (_super) { _extends(BoxLayout, _super); return /** * A layout which arranges its widgets in a single row or column. * * @param options - The options for initializing the layout. * * @param options.alignment - The content alignment for the box layout. * * @param options.direction - The layout direction for the box layout. * * @param options.spacing - The inter-element spacing for the box layout. * * @param options.spacing === undefined) {
            _this._spacing = Private.clampSpacing(options.spacing);
        }
        if (options.alignment !== undefined) {
            _this._alignment = options.alignment;
        }
        if (options.direction !== undefined) {
            _this._direction = options.direction;
        }
        if (options.spacing !== undefined) {
            _this._spacing = Private.clampSpacing(options.spacing);
        }
        return _this;
    }
    /**
     * Dispose of the resources held by the layout.
     *
     * @returns{this}
     */
    BoxLayout.prototype.dispose = function () { _this = this; this._box = null; this._items.length = 0; this._sizers.length = 0; // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
    this._initialized = false;
    return; // Clear the layout state.

    this._items = [];
    this._sizers = [];
    // Dispose of the layout items.
    algorithm_1.each(this._items, function (item) { item.dispose(); });
    // Clear the layout state.
    this._items = [];
    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
    this._initialized = false;
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    this._sizers = [];
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    _super.prototype.dispose.call(this);
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    this._sizers = [];
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    this._initialized = false;
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    // Clear the layout state.
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    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
    this._initialized = false;
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    // Clear the layout state.
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    // Clear the layout state.
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    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
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    this._sizers = [];
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    // Clear the layout state.
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    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
    this._initialized = false;
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    // Clear the layout state.
    this._items = [];
    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
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    algorithm_1.each(this._items, function (item) { item.dispose(); });
    // Clear the layout state.
    this._items = [];
    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
    this._initialized = false;
    return; // Clear the layout state.

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    // Clear the layout state.
    this._items = [];
    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);
    this._initialized = false;
    return; // Clear the layout state.

    this._items = [];
    this._sizers = [];
    // Dispose of the layout items.
    algorithm_1.each(this._items, function (item) { item.dispose(); });
    // Clear the layout state.
    this._items = [];
    this._sizers = [];
    // Dispose of the rest of the layout.
    _super.prototype.dispose.call(this);$}</textarea>
widget's node to the parent.

this.parent.node.appendChild(widget.node); // Send an 'after-attach'
message if the parent is attached.

messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterAttach); // Post a fit
request for the parent widget.

this.parent.fit(); // Move a widget in the parent's DOM

*widget * @param fromIndex - The previous index of the widget in the layout.

*widget * @param toIndex - The current index of the widget in the layout.

*widget * @param widget - The widget to move in the parent.

*widget * #### Notes

This is a reimplementation of the superclass method.

BoxLayout.prototype.moveWidget = function (fromIndex, toIndex, widget) { // Move the layout item for the

widget.

algorithm_1.ArrayExt.move(this._items, fromIndex, toIndex); // Move the sizer for the

widget.

algorithm_1.ArrayExt.move(this._sizers, fromIndex, toIndex);


// Post an update request for the parent widget.

this.parent.update(); // Move the layout item for the widget.

// Update the item.

item.fit();

// Update the size basis and stretch factor.

{
    sizer.minSize = 0;
    sizer.maxSize = 0;
    continue;
}

// Update the sizers and computed minimum size.

for (var i = 0, n = this._items.length; i < n; ++i) {
    // Fetch the item and corresponding box sizer.
    var item = this._items[i];

    // Update the sizer from the parent.

    var itemSize = item.fit();

    // Remove the sizer from the DOM.

    var sizer = item.sizer;

    // Set the size limits for the item.

    item.fit();

    // Update the size basis and stretch factor.

    sizer.sizeHint = BoxLayout.getSizeBasis(item.widget);

    sizer.stretch = BoxLayout.getStretch(item.widget);

    // Update the sizer limits and computed min size.

    if (horz)
item.update(left - offset - size - extra, top, size + extra, height);
                    left -= size + extra +
top += size + extra + this._spacing;
                    break;
                case 'right-to-left':
break;
                case 'top-to-bottom':
                    item.update(left, top + offset, width, size + extra);

                    left += size + extra + this._spacing;
advance the relevant edge.
            switch (this._direction) {
                case 'left-to-right':

            var size = this._sizers[i].size;
            // Update the widget geometry and
            // Computed size for the widget.

            var offset = 0;
        // Account for alignment if there is extra layout space.
        if (delta > 0) { break; }
    case 'bottom-to-top':
        delta = boxengine_1.BoxEngine.calc(this._sizers, Math.max(0, height - this._fixed));
break;
    case 'top-to-bottom':
        delta = boxengine_1.BoxEngine.calc(this._sizers, Math.max(0, height - this._fixed));
break;
    }
    // Bail early if there are no visible items to layout.
    if (nVisible === 0) { return; } // Measure the parent if the offset dimensions are unknown.
    if (offsetWidth < 0) { offsetWidth = this.parent.node.offsetWidth; }
    if (offsetHeight < 0) { offsetHeight =
        this.parent.node.offsetHeight; }
    // Ensure the parent box sizing data is computed.
    if (!this._box) { this._box = domutils_1.ElementExt.boxSizing(this.parent.node); }
    // Compute the layout area adjusted for border and padding.
    var top = this._box.paddingTop;
    var left = this._box.paddingLeft;
    var width = offsetWidth - this._box.horizontalSum;
    var height = offsetHeight - this._box.verticalSum;
    // Distribute the layout space and adjust the start position.
    var delta;
    switch (this._direction) {
        case 'left-to-right':
            delta = boxengine_1.BoxEngine.calc(this._sizers, Math.max(0, width - this._fixed));
break;
        case 'right-to-left':
            delta = boxengine_1.BoxEngine.calc(this._sizers, Math.max(0, width - this._fixed));
left += width;
break;
        case 'top-to-bottom':
            delta = boxengine_1.BoxEngine.calc(this._sizers, Math.max(0, height - this._fixed));
top += height;
break;
        default:
    throw
    'unreachable';
    }
    // Setup the variables for justification and alignment offset.
    var extra = 0;
    var offset = 0;
    // Setup the layout using the computed box sizes.
for (var i = 0, n = this._items.length; i < n; ++i) {
    var item = this._items[i];
    // Fetch the item.
    if (item.isHidden) { continue; } // Ignore hidden items.
    if (item.isHidden) { continue; }
    var item = this._items[i];
    // Fetch the computed size for the widget.
    var size = this._sizers[i].size;
    // Update the widget geometry and
    advance the relevant edge.
    switch (this._direction) {
        case 'left-to-right':
            item.update(left - offset - size - extra, top, size + extra, height);
left += size + extra + this._spacing;
break;
        case 'right-to-left':
            item.update(left - offset - size - extra, top, size + extra, height);
left -= size + extra +
}
this._iconLabel = options.iconLabel;

if (options.caption !== undefined) {
    this._caption = options.caption;
}

if (options.className !== undefined) {
    this._className = options.className;
}

if (options.closable !== undefined) {
    this._closable = options.closable;
}

this._dataset = options.dataset || {};

Object.defineProperty(Title.prototype, \"changed\", {
    \*/
    * A signal emitted when the state of the title changes.
    \*/
    get: function () {
        return this._changed;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(Title.prototype, \"icon\", {
    \*/
    * @deprecated Use \`iconClass\` instead.
    \*/
    get: function () {
        return this.iconClass;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(Title.prototype, \"iconClass\", {
    \*/
    * Get the icon class name for the title.
    \*/
    get: function () {
        return this._iconClass;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(Title.prototype, \"iconLabel\", {
    \*/
    * Get the icon label for the title.
    \*/
    get: function () {
        return this._iconLabel;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(Title.prototype, \"closable\", {
    \*/
    * Get the closable state for the title.
    \*/
    get: function () {
        return this._closable;
    },
    enumerable: true,
    configurable: true
});
Open Source Used In Secure Workload 3.6.1.1

2022

*Notes\n* The default keyboard layout is US-English.\n*\n* Set the global application keyboard layout instance.\n*\n* **Notes\n* The layout should typically be set on application startup* to a layout which is appropriate for the user's system.\n*\n* Notes\n* The `keyCode` property of a "keydown" event is a browser and OS\n* specific representation of the physical key (not character) which\n* was pressed on a keyboard. While not the most convenient API, it\n* is currently the only one which works reliably on all browsers.\n* **Notes\n* This class accepts a user-defined mapping of `keyCode` to key, which\n* allows for reliable shortcuts tailored to the user's system.\n* **Notes\n* The default keyboard layout is US-English.\n* **Notes\n* The `keyCode` property of a "keydown" event is a browser and OS\n* specific representation of the physical key (not character) which\n* was pressed on a keyboard. While not the most convenient API, it\n* is currently the only one which works reliably on all browsers.\n* **Notes\n* This class accepts a user-defined mapping of `keyCode` to key, which\n* allows for reliable shortcuts tailored to the user's system.\n
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Open Source Used In Secure Workload 3.6.1.1  2022

Object.defineProperty(TabBar.prototype, "tabActivated", {
    /**
     * A signal emitted when a tab is activated by the user.
     */
    get: function () {
        return this._currentChanged;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(TabBar.prototype, "tabMoved", {
    /**
     * A signal emitted when a tab is moved by the user.
     */
    get: function () {
        return this._dragData;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(TabBar.prototype, "currentChanged", {
    /**
     * A signal emitted when the currently selected tab is changed.
     */
    get: function () {
        return this._currentChanged;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(TabBar.prototype, "tabCloseRequested", {
    /**
     * A signal emitted when a tab is closed by the user.
     */
    get: function () {
        return this._tabCloseRequested;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(TabBar.prototype, "tabActivateRequested", {
    /**
     * A signal emitted when a tab is activated by the user.
     */
    get: function () {
        return this._tabActivateRequested;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(TabBar.prototype, "tabDetachRequested", {
    /**
     * A signal emitted when a tab is detached by the user.
     */
    get: function () {
        return this._tabDetachRequested;
    },
    enumerable: true,
    configurable: true
});
current tab, the clicked tab will be `null` * made current and the `currentChanged` signal will be emitted first.

```javascript
*This signal is emitted even if the clicked tab is the current tab.*

```javascript

```javascript
return this._tabActivateRequested;
*/
```javascript

```javascript
// Do nothing if the orientation does not change.
if (this._orientation === value) {
  return;
}
// Adjust for an out of range index.
if (value < 0 || value >= this._titles.length) {
  value = -1;
}
```javascript

```javascript
set: function (value) {
  this.orientation = value;
}*/
```javascript

```javascript
// Bail early if the index will not change.
if (this._currentIndex === value) {
  return;
}
```javascript

```javascript
// Update the current index and previous title.
this._currentIndex = value;
```javascript

```javascript
var ci = value;
var ct = this._titles[ci] || null;
```javascript

```javascript
// Update the current index and previous title.
```javascript

```javascript
this.update();
```javascript

```javascript
// Emit the current changed signal.
this._currentChanged.emit({
  ```javascript
```
```
```
```
```
```
```
```javascript

```javascript
// Toggle the orientation values.
this._orientation = value;
```javascript

```javascript
// Release the mouse before making any changes.
this._releaseMouse();
```javascript

```javascript
this.dataset['orientation'] = value;
```javascript

```javascript
Object.defineProperty(TabBar.prototype, 'orientation', {*
```javascript

```javascript
set: function (value) {
  this.orientation = value;
}*/
```javascript

```javascript
// Adjust for an out of range index.
if (value < 0 || value >= this._titles.length) {
  value = -1;
}
```javascript

```javascript
set: function (value) {
  this.orientation = value;
}*/
```javascript

```javascript
// Bail early if the index will not change.
if (this._currentIndex === value) {
  return;
}
// Update the current index and previous title.
this._currentIndex = value;
```javascript

```javascript
var ci = value;
var ct = this._titles[ci] || null;
```javascript

```javascript
// Update the current index and previous title.
```javascript

```javascript
this.update();
```javascript

```javascript
// Emit the current changed signal.
this._currentChanged.emit({
  ```javascript
```
```
```
```
```
```
```
```javascript

```javascript
// Toggle the orientation values.
this._orientation = value;
```javascript

```javascript
// Release the mouse before making any changes.
this._releaseMouse();
```javascript

```javascript
this.dataset['orientation'] = value;
```javascript

```javascript
Object.defineProperty(TabBar.prototype, 'orientation', {*
```javascript

```javascript
set: function (value) {
  this.orientation = value;
}*/
```javascript

```javascript
// Adjust for an out of range index.
if (value < 0 || value >= this._titles.length) {
  value = -1;
}
```javascript

```javascript
set: function (value) {
  this.orientation = value;
}*/
```javascript

```javascript
// Bail early if the index will not change.
if (this._currentIndex === value) {
  return;
}
// Update the current index and previous title.
this._currentIndex = value;
```javascript

```javascript
var ci = value;
var ct = this._titles[ci] || null;
```javascript

```javascript
// Update the current index and previous title.
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```
DOM events for the tab bar.

* @param event - The DOM event sent to the tab bar.

* Release the mouse and restore the non-dragged tab positions.

### Notes
* This will cause the tab bar to
* Look up the index of the title.

* Return the title added to the tab bar.

* Otherwise, the title exists in the
* array and should be moved.

* Adjust the index if the location is at the end of the array.

* If the title is not in the array, insert it.

* Insert the title into the array.

* Release the mouse before making any changes.

* Adjust the current index for the insert.

* Return the title added to the tab bar.

* Bail if there is no effective move.

* Adjust the current index for the remove.

* Return all tabs from the tab bar.

* Adjust the current index for the remove.

* Remove all tabs from the tab bar.

* Adjust the current index for the clear tabs.

* Disconnect from the title changed signal.

* Clear the previous title if it's being removed.

* Bail if there is nothing to remove.

* Adjust the current index for the previous title.

* Emitt function to send the title changed signal.

* Release the mouse and restore the non-dragged tab positions.

* Release the mouse and handle the DOM events for the tab bar.

* @param event - The DOM event sent to the tab bar.
### Notes

* This method implements the DOM `EventListener` interface and is called in response to events on the tab bar's DOM node.
* This should not be called directly by user code.

```javascript
TabBar.prototype.handleEvent = function (event) {
    switch (event.type) {
        case 'mousedown':
            this._evtMouseDown(event);
            break;
        case 'mousemove':
            this._evtMouseMove(event);
            break;
        case 'mouseup':
            this._evtMouseUp(event);
            break;
        case 'contextmenu':
            this._evtContextmenu(event);
            break;
        case 'keydown':
            this._evtKeyDown(event);
            break;
        case 'keyup':
            this._evtKeyUp(event);
            break;
        case 'before-attach':
            this.onBeforeAttach(event);
            break;
        case 'after-attach':
            this.onAfterAttach(event);
            break;
        case 'update-request':
            this.onUpdateRequest(event);
            break;
        case 'after-detach':
            this.onAfterDetach(event);
            break;
        case 'contextmenu':
            this._evtContextMenu(event);
            break;
        case 'keydown':
            this._evtKeyDown(event);
            break;
        case 'keyup':
            this._evtKeyUp(event);
            break;
        case 'move':
            this.onMove(event);
            break;
        case 'keydown':
            this._evtKeyDown(event);
            break;
        case 'keyup':
            this._evtKeyUp(event);
            break;
        case 'before-attach':
            this.onBeforeAttach(event);
            break;
        case 'after-attach':
            this.onAfterAttach(event);
            break;
        case 'update-request':
            this.onUpdateRequest(event);
            break;
        case 'after-detach':
            this.onAfterDetach(event);
            break;
    }
}
```

#### Algorithm

- **Algorithm 1.**

  ```javascript
  function dragEnter() {
      var data = this._dragData;
      if (data) {
          return;
      }
      data = new Arraydomutils.1.ArrayExt.findFirstIndex(tabs, function (tab) {
          return domutils.1.ElementExt.hitTest(tab, event.clientX, event.clientY);
      })
      if (data) {
          return;
      }
      data = virtualdom.1.VirtualDOM.render(content, this.contentNode);
      if (data) {
          return;
      }
      data = new Arraytitles.length;
      for (var i = 0, n = titles.length; i < n; ++i) {
          var title = titles[i];
          var current = title === currentTitle;
          var zIndex = current ? n : n - i - 1;
          content[i] = renderer.renderTab({ title: title, current: current, zIndex: zIndex });
      }
      var content = new Array(titles.length);
      for (var i = 0, n = titles.length; i < n; ++i) {
          var title = titles[i];
          var current = title === currentTitle;
          var zIndex = current ? n : n - i - 1;
          content[i] = renderer.renderTab({ title: title, current: current, zIndex: zIndex });
      }
  }
  ```

- **Algorithm 2.**

  ```javascript
  function dragMove() {
      var index = domutils.1.ElementExt.getTabIndexByDOM(tabs[index], event.clientX, event.clientY);
      if (index === -1) {
          this.currentIndex = -1;
      } else {
          this.currentIndex = index;
      }
      this.contentNode.innerHTML = content;
      if (this.tabsMovable) {
          document.addEventListener('mousemove', this, true);
      }
      if (this.closeIcon) {
          this.closeIcon.setAttribute('data', index);
      }
      if (this._dragData) {
          return;
      }
      this._dragData = {
          tab: tabs[index],
          index: index,
          pressX: event.clientX,
          pressY: event.clientY,
          tabPos: -1,
          tabSize: -1,
          tabPressPos: -1,
          tabTargetIndex: -1,
          tabLayout: null,
          contentRect: null,
          override: null,
          dragActive: false,
          dragAborted: false,
          dragDetected: false,
          dragRequested: false,
          draggable: false,
          press: true,
          target: null,
          source: null,
          dragStart: false,
          dragEnd: false,
          dragMove: false,
          dragStop: false,
          mouseUp: false,
          mouseDown: false,
          mouseMove: false,
          mouseEnter: false,
          mouseLeave: false,
          touchStart: false,
          touchMove: false,
          touchEnd: false,
          touchCancel: false,
          pointerDown: false,
          pointerMove: false,
          pointerUp: false,
          pointerCancel: false,
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          pointerInert: false,
          pointerDown: false,
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          pointerUp: false,
          pointerCancel: false,
          pointerOut: false,
          pointerOver: false,
the tab nodes.

```javascript
var tabs = this.contentNode.children;

// Bail early if the drag threshold has not been met.
if (!data.dragActive & & !Private.dragExceeded(data, event)) {
    return;
}

// Activate the drag if necessary.
if (!data.dragActive) {
    // Fill in the rest of the drag data measurements.
    var tabRect = data.tab.getBoundingClientRect();
    if (this._orientation === 'horizontal') {
        data.tabPos = data.tabOffsetLeft;
        data.tabSize = tabRect.width;
    } else {
        data.tabPos = data.tabOffsetTop;
        data.tabSize = tabRect.height;
    }
    data.tabPressPos = data.pressX - tabRect.left;
    data.tabLayout = Private.snapTabLayout(tabs, this._orientation);

    data.contentRect = this.contentNode.getBoundingClientRect();
    data.override = dragdrop_1.Drag.overrideCursor('default');
    Add the dragging style classes.

    data.tab.classList.add('p-mod-dragging);
    this.addClass('p-mod-dragging');

    // Mark the drag as active.
    data.dragActive = true;

    // Emit the drag requested signal if the threshold is exceeded.
    if (!data.dragRequested & & !Private.dragExceeded(data, event)) {
        // Only emit the signal once per drag cycle.
        data.dragRequested = true;
        // Setup the arguments for the signal.
        var index = data.index;
        var clientX = event.clientX;
        var clientY = event.clientY;
        var tab = tabs[index];
        var title = this._titles[index];
        // Emit the tab request signal.
        this._tabRequestRequested.emit({ index: index, title: title, tab: clientX: clientY: clientY });

        // Bail if the signal handler aborted the drag.
        if (data.dragAborted) {
            return;
        }

        // Update the positions of the tabs.
        Private.layoutTabs(tabs, data, event, this._orientation);
    }

    // Handle the 'mouseup' event for the document.
    TabBar.prototype._evtMouseUp = function (event) {
        var _this = this;

        // Do nothing if it's not a left or middle mouse release.
        if (event.button !== 0 & & event.button !== 1) {
            return;
        }

        // Do nothing if no drag is in progress.
        var data = this._dragData;
        if (!data) {
            return;
        }

        // Stop the event propagation.
        event.preventDefault();

        // Remove the extra mouse event listeners.
        document.removeEventListener('contextmenu', this, true);
        document.removeEventListener('keydown', this, true);
        document.removeEventListener('mousemove', this, true);
        document.removeEventListener('mouseup', this, true);

        // Handle a release when the drag is not active.
        if (!data.dragActive) {
            // Clear the drag data.
            this._dragData = null;

            // Look up the tab nodes.
            var tabs = this.contentNode.children;

            // Bail early if nothing is left to do.
            if (tabs.length <= 0) {
                return;
            }

            // Ignore the release if the title is not closable.
            var title = this._titles[index];
            if (!title.closable) {
                return;
            }

            // Emit the close requested signal if the middle button is released.
            if (event.button === 1) {
                this._tabCloseRequested.emit({ index: index, title: title });
                return;
            }

            // Otherwise, there is nothing left to do.
            var icon = tabs[index].querySelector(this.renderer.closeIconSelector);

            if (icon & & icon.contains(event.target)) {
                this._tabCloseRequested.emit({ index: index, title: title });
                return;
            }

            // Position the tab at its final resting position.
            Private.finalizeTabPosition(data, this._orientation);

            // Remove the dragging class from the tab so it can be transitioned.
            data.tab.classList.remove('p-mod-dragging');

            // Parse the transition duration for releasing the tab.
            var duration = Private.parseTransitionDuration(data.tab);

            // Complete the release on a timer to allow the tab to transition.
            setTimeout(function () {
                // Do nothing if the drag has been aborted.
                if (data.dragAborted) {
                    return;
                }

                // Clear the drag data reference.
                this._dragData = null;

                // Reset the positions of the tabs.
            }, duration);
        }
    };
```

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```javascript
/**
 * Create the dataset for a tab.
 *
 * @param data - The data to use for the tab.
 *
 * @returns The dataset for the tab.
 */
        Renderer.prototype.createTabDataset = function (data) {
            var dataset = {
                title: data.title, caption: data.title.caption,
                iconLabel: data.title.iconLabel,
                label: data.title.label
            };
            return dataset;
        };
        /**
         * Return the unique render key for the tab.
         *
         * @param data - The data to use for rendering the tab.
         *
         * @returns A virtual element representing the tab.
         */
        Renderer.prototype.render = function (data) {
            var className = this.createIconClass(data);
            return virtualdom_1.h.li(
                { key: key, className: className, title: title, style: style, dataset: dataset },
                this.renderIcon(data),
                this.renderLabel(data),
                this.renderCloseIcon(data)
            );
        };
        **/
```
```javascript
var files = require('path').join(process.env.SRC, 'labjs');

var outputArea = new Promise(resolve, reject);

requirejs(["outputarea", resolve, reject]);

var OutputModel = outputBase.OutputModel.extend({
    defaults: _.extend({}, outputBase.OutputModel.prototype.defaults(), {
        // Add any default values here
    }),

    initialize: function(attributes, options) {
        // Initialize the OutputModel
    },

    // Additional methods...

    // Stop here or keep going...
});
```

This example shows how to create an output area in Jupyter Notebook using the `outputArea` module. It involves setting up a `Promise` to load the `outputarea` module, and then extending the `outputBase` module to create a custom `OutputModel` with default configurations. The `initialize` method is where you would typically define how the output area initializes its own state and properties.

The mentioned dependencies and import statements are crucial for setting up the environment where this code can be executed, ensuring that all necessary modules and functionalities are available.
```javascript
var OutputView = outputBase.OutputView.extend({
    render: function(){
        var that = this;
        that.output_area.clear_output(true);
        // fromJSON does not clear the existing output
        that.output_area.area = new outputArea.OutputArea({
            selector: that.el,
            // use default values for the output area config
            config: {data: {OutputArea: {}}},
            prompt_area: false,
            events: that.model.widget_manager.notebook.events,
            keyboard_manager: that.model.widget_manager.keyboard_manager
        });
        that.listenTo(that.model, 'new_message', function(msg) {
            that.output_area.handle_output(msg);
        }, that);
        that.listenTo(that.model, 'clear_output', function(msg) {
            that.output_area.handle_clear_output(msg);
        }, that);
        that.listenTo(that.model, 'change:outputs', function(msg) {
            that.output_area.handle_changes(msg);
        }, that);
        that.listenTo(that, 'clear_output', function(msg) {
            that.output_area.handle_clear_output(msg);
        }, that);
        that.listenTo(that, 'new_message', function(msg) {
            that.output_area.handle_output(msg);
        }, that);
        that.listenTo(that, 'change:outputs', function(msg) {
            that.output_area.handle_changes(msg);
        }, that);
        that.save_changes();
    },

    setOutputs: function(model, value, options) {
        if (!(options && options.newMessage)) {
            // fromJSON does not clear the existing output
            this.output_area.clear_output();
            // fromJSON does not copy the message, so we make a deep copy
            this.output_area.fromJSON(JSON.parse(JSON.stringify(this.get('outputs'))));
        }
    }
});

module.exports = {
    OutputView: OutputView,
    OutputModel: OutputModel,
};
```
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`use strict';

/*<replacement>*/

var processNextTick = require('process-nexttick-args');
/*</replacement>*/

module.exports = Readable;

/*<replacement>*/
var isArray = require('isarray');
/*</replacement>*/

/*<replacement>*/
var Duplex;
/*</replacement>*/

Readable.ReadableState = ReadableState;

/*<replacement>*/
var EE = require('events').EventEmitter;

var EElistenerCount = function (emitter, type) {
  return emitter.listeners(type).length;
};
/*</replacement>*/

/*<replacement>*/
var Stream = require('./internal/streams/stream');
/*</replacement>*/

// TODO(bmeurer): Change this back to const once hole checks are properly optimized away early in Ignition+TurboFan.

/*<replacement>*/
var Buffer = require('safe-buffer').Buffer;
var OurUint8Array = global.Uint8Array || function () {};
function _uint8ArrayToBuffer(chunk) {
  return Buffer.from(chunk);
}
function _isUint8Array(obj) {
  return Buffer.isBuffer(obj) || obj instanceof OurUint8Array;
}
/*</replacement>*/

/*<replacement>*/
var util = require('core-util-is');
util.inherits = require('inherits');
/*</replacement>*/

/*<replacement>*/
var debugUtil = require('util');
var debug = void 0;
if (debugUtil && debugUtil.debuglog) {
  debug = debugUtil.debuglog('stream');
} else {
  debug = function () {};
}
/*</replacement>*/

var BufferList = require('./internal/streams/BufferList');
var destroyImpl = require('./internal/streams/destroy');
var StringDecoder;

util.inherits(Readable, Stream);

var kProxyEvents = ['error', 'close', 'destroy', 'pause', 'resume'];

function prependListener(emitter, event, fn) {
  // Sadly this is not cacheable as some libraries bundle their own
  // event emitter implementation with them.
  if (typeof emitter.prependListener === 'function') {
    return emitter.prependListener(event, fn);
  } else {
    // This is a hack to make sure that our error handler is attached before any
    // userland ones. NEVER DO THIS. This is here only because this code needs
    // to continue to work with older versions of Node.js that do not include
    // the prependListener() method. The goal is to eventually remove this hack.
    if (emitter._events && emitter._events[event]) emitter.emit(event, fn);
    else if (isArray(emitter._events[event])) emitter._events[event].unshift(fn);
    else emitter._events[event] = [fn, emitter._events[event]];
  }
}

function ReadableState(options, stream) {
  Duplex = Duplex || require('./_stream_duplex');

  options = options || {};

  // object stream flag. Used to make read(n) ignore n and
  // make all the buffer merging and length checks go away
  this.objectMode = !!options.objectMode;

  // the point at which it stops calling _read() to fill the buffer
  // the point at which it stops calling _read() to fill the buffer
  // Note: 0 is a valid value, means \don't call _read preemptively
  var hwm = options.highWaterMark;
  var defaultHwm = this.objectMode ? 16 : 16 * 1024;

  if (stream instanceof Duplex) this.objectMode = this.objectMode || !!options.readableObjectMode;

  this.highWaterMark = hwm || hwm === 0 ? hwm : defaultHwm;
  // cast to int
  this.highWaterMark = Math.floor(this.highWaterMark);

  // A linked list is used to store data chunks instead of an array because the
  // linked list can remove elements from the beginning faster than n // array.shift()
  // array.shift() this.buffer = new BufferList();
  this.length = 0;
  this.pipes = null;
  this.pipesCount = 0;
  this.flowing = null;
  this.ended = false;
  this.endEmitted = false;
  this.reading = false;

  // a flag to be able to tell if the event 'readable' data' is emitted
  // immediately, on a later tick. We set this to true at first, because
  // any actions that shouldn't happen until
  // "later" should generally also // not happen before the first read call.
  this.sync = true;

  // we're awaiting a 'readable' event emission.
  this.needReadable =...
triggered.

```javascript
function needMoreData(state) { return !state.ended && (state.needsReadable || state.length < state.highWaterMark || state.length === 0); }

function isPaused() {
  return this._readableState.flowing === false;
}

Readable.prototype.isPaused = function () {
  return this._readableState.flowing === false;
};

// backwards compatibility.
Readable.prototype.setEncoding = function (enc) {
  if (!StringDecoder) StringDecoder = require('string_decoder/').StringDecoder;
  this._readableState.decoder = new StringDecoder(enc);
  this._readableState.encoding = enc;
  return this;
};

// Don't raise the hwm > 8MB
var MAX_HWM = 0x800000;

function computeNewHighWaterMark(n) {
  if (n >= MAX_HWM) {
    n = MAX_HWM;
  } else {
    // Get the next highest power of 2 to prevent increasing hwm excessively
    n = n >>> 1;
    n |= n >>> 2;
    n |= n >>> 4;
    n |= n >>> 8;
    n = n >>> 16;
    n = n >>> 32;
    n = n >>> 64;
    return n;
  }
}

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    n |= n >>> 4;
    n |= n >>> 8;
    n = n >>> 16;
    n = n >>> 32;
    n = n >>> 64;
    return n;
  }
}

// this._readableState.decoder = new StringDecoder(enc);
this._readableState.encoding = enc;

return this;
}```
chunk.length) { // state.buffer.push(chunk);
  state.length += state.objectMode ? 1 : chunk.length;
  state.ended = true;
  // emit 'readable' now to make sure it gets picked up.
  emitReadable(stream);
}

Don't emit readable right away in sync mode, because this can trigger another read() call => stack overflow. This way, it might trigger a nextTick recursion warning, but that's not so bad.

if (state.emittedRead) {
  state.emittedReadable = true;
  if (state.sync) processNextTick(emitReadable, stream);
  else emitReadable_(stream);
}

stream.emit('readable');

flow(stream)

at this point, the user has presumably seen the 'readable' event, // and called read() to consume some data. that may have triggered // in turn another _read(n) call, in which case reading = true if // it's in progress. // However, if we're not ended, or reading, and the length < hwmark // then go ahead and try to read some more preemptively.

function maybeReadMore(stream, state) {
  if (!state.readingMore) {
    state.readingMore = true;
    processNextTick(maybeReadMore, stream);
  }
}

function maybeReadMore_(stream, state) {
  var len = state.length;
  while (!state.reading && !state.ended && state.length < state.highWaterMark) {
    stream.read(0);
    if (len === state.length) // didn't get any data, stop spinning
      break;
    else len = state.length;
  }

  if (state.reading) {
    var src = this;
    var state = this._readableState;
    switch (state.pipesCount) {
      case 0:
        state.pipes = dest;
        break;
      case 1:
        state.pipes = [state.pipes, dest];
        break;
      default:
        state.pipes.push(dest);
        break;
    }

    state.pipesCount += 1;
    if (state.reading) {
      var src = this;
      var state = this._readableState;
      var stream = state.pipes[0];
      var pipes = state.pipes;
      var dest;

      if (state.ended) {
        var done = false;
        if (state._writableState.needDrain) {
          state.needRead = true;
          state.highWaterMark = state.objectMode ? 0 : chunk.length;
          state.ended = true;
          emitReadable(stream);
        }
      }
    }
  }
}

Readable.prototype._read = function (n) {
  if (n) throw new Error('_read() is not implemented');
}

Readable.prototype.pipe = function (dest, pipeOpts) {
  var src = this;
  var state = src._readableState;

  if (state.pipesCount === 1 && state.pipes === dest || state.pipesCount > 1 && state.pipes.length - state.pipes.indexOf(dest) === 0) {
    state.pipes.push(dest);
    state.pipesCount += 1;

    var endFn = pipeOnDrain;
    if (state.endEmitted)
      processNextTick(endFn);
    else src.once('end', onend);

    if (state.readingMore) {
      state.needReadable = true;
      state.length += state.objectMode ? 1 : chunk.length;
    }
  }
}

function getReadableState(src, state) {
  var readableState = state.readableState || new ReadableState;

  readableState.ended = state.ended;
  readableState.reading = state.reading;
  readableState.length = state.length;
  readableState.pipesCount = state.pipesCount;
  readableState.pipes = state.pipes;
  readableState.needReadable = state.needReadable;
  readableState.emittedReadable = state.emittedReadable;

  return readableState;
}

function setReadableState(state) {
  state.readableState = state;
  state.length = state.ended ? 0 : state.length;
  state.emittedReadable = false;

  if (state.ended) {
    state.endEmitted = true;
    state.endedCallback.call(state.emittedReadable ? state.buffer || [] : [], writeRun感人)
  }

  // unpipe if this is the only pipe through this readable state.
  if (state.ended && !state.endedCallback && !dest.on('error') // prevent double cleaning
    && !cleanedUp)
    return;
}

// emit any remaining data from prior flushes if last chunk was short
function emitReadable(stream) {
  var state = stream._readableState;
  state.needReadable = false;
  state.emitReadable = true;
}

// Don't emit readable right away in sync mode, because this can trigger another read() call => stack overflow. This way, it might trigger a nextTick recursion warning, but that's not so bad.

if (state.emittedRead) {
  state.emittedReadable = true;
  if (state.sync) processNextTick(emitReadable, stream);
  else emitReadable_(stream);
}

stream.emit('readable');

flow(stream)

at this point, the user has presumably seen the 'readable' event, // and called read() to consume some data. that may have triggered // in turn another _read(n) call, in which case reading = true if // it's in progress. // However, if we're not ended, or reading, and the length < hwmark // then go ahead and try to read some more preemptively.

function maybeReadMore(stream, state) {
  if (!state.readingMore) {
    state.readingMore = true;
    processNextTick(maybeReadMore, stream);
  }
}

function maybeReadMore_(stream, state) {
  var len = state.length;
  while (!state.reading && !state.ended && state.length < state.highWaterMark) {
    stream.read(0);
    if (len === state.length) // didn't get any data, stop spinning
      break;
    else len = state.length;
  }

  if (state.reading) {
    var src = this;
    var state = this._readableState;
    switch (state.pipesCount) {
      case 0:
        state.pipes = dest;
        break;
      case 1:
        state.pipes = [state.pipes, dest];
        break;
      default:
        state.pipes.push(dest);
        break;
    }

    state.pipesCount += 1;
    debug('pipe count=%d opts=%j', state.pipesCount, pipeOpts);

    var doEnd = (!pipeOpts || pipeOpts.end !== false) && dest !== process.stdout &&
    dest !== process.stderr;

    var endFn = doEnd ? onend : unpipe;
    if (state.endEmitted)
      processNextTick(endFn);
    else src.once('end', endFn);

    dest.on('unpipe', onunpipe);
    function onunpipe(readable, unpipeInfo) {
      debug('onunpipe');
      if (readable === src) {
        if (unpipeInfo && unpipeInfo.hasUnpiped === false) {
          unpipeInfo.unpiped = true;
          cleanup();
        }
      }
      state.endEmitted = true;
      state.endEmittedCallback.call(state.emittedReadable ? state.buffer || [] : [], writeRun感人)
    }

    function onend() {
      debug('onend');
      dest.end();
    }

    // when the dest drains, it reduces the awaitDrain counter // on the source.
    this would be more elegant with a .once() // handler in flow(), but adding and removing repeatedly is // too slow.
    var ondrain = pipeOnDrain;
    state.on('drain', ondrain);
    var varOnDrain = pipeOnDrain(src); // dest.on('drain', ondrain);
    var varCleanedUp = false;
    function cleanup() {
      // cleanup event handlers once the pipe is broken
      dest.removeListener('close', onclose);
      dest.removeListener('finish', onfinish);
      dest.removeListener('drain', ondrain);
      dest.removeListener('error', onerror);
      dest.removeListener('unpipe', onunpipe);

      var src = this;
      var state = this._readableState;
      var srcCleanedUp = true;
      if (state.reading && !state.ended) {
        var done = false;
        if (state._writableState.needDrain) {
          state.needRead = true;
          state.highWaterMark = state.objectMode ? 0 : chunk.length;
          state.ended = true;
          emitReadable(stream);
        }
      }
    }
    // if the user pushes more data while we're writing to dest then we'll end up on // in ondata again. However, we only want to increase awaitDrain once because // dest will only emit one 'drain' event for the multiple writes.
    // => Introduce a guard on increasing awaitDrain.
    var varIncreasedAwaitDrain = false;
    src.on('data', ondata);
    src.on('error', onerror);
    src.on('finish', onfinish);

    function ondata(chunk) {
      debug('ondata');
      if (false === ret && !increasedAwaitDrain) {
        // Check whether dest is still a piping destination.
        if ((state.pipesCount === 1 && state.pipes === dest) || state.pipesCount > 1) {
          if (false === ret && !increasedAwaitDrain) {

            debug('increasedAwaitDrain = true;
            src.on('pause', src._readableState.awaitDrain++);
          
          increasedAwaitDrain = true;
          src._readableState.awaitDrain++; // if the dest has an error, then stop piping into it.
          // however, don't suppress the throwing behavior for this.
          function
onerror(err) { console.log('onerror', err); }
unpipe(dest); dest.removeListener('error', onerror);
ungenabled = true;
if (dest.error) return dest.emit('error', err, onerror);
// Make sure our error handler is attached before userland ones.
preenable(dest, 'error', onerror);
// Both close and finish should trigger unpipe, but only once.
function onclose() { dest.removeListener('finish', onfinish);
unpipe(dest); dest.once('close', onclose);
function onfinish() { debug('onfinish'); dest.removeListener('error', onerror);
if (EElistenerCount(dest, 'error') === 0) dest.emit('error', err);
}
// Make sure our error handler is attached before userland ones.
prependListener(dest, 'error', onerror);
// Both close and finish should trigger unpipe, but only once.
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function onfinish() { debug('onfinish'); dest.removeListener('error', onerror);
if (EElistenerCount(dest, 'error') === 0) dest.emit('error', err);
}
require('inherits');

util.inherits(Transform, Duplex);

function TransformState(stream) {
  this.afterTransform = function (er, data) { return afterTransform(stream, er, data); }
  this.needTransform = false;
  this.transforming = false;
  this.writechek = null;
  this.writechunk = null;
  this.writeencoding = null;
  var cb = ts.writecb;
  if (cb) { return stream.emit('error', new Error('write callback called multiple times')); }
  this.writechunk = null;
  this.writecb = null;
  if (data !== null && data !== undefined) {
    stream.push(data);
  }
  data = stream._readableState;
  this.transforming = false;
  this.needTransform = true;
  if (this._instanceof Transform)) return new Transform(options);
 Duplex.call(this, options);

  this._transformState = new TransformState(this);
  var stream = this;

  // start out asking for a readable event once data is transformed.
  var this._readableState = needReadable = true;
  // we have implemented the _read method, and done the other things // that Readable wants before the first _read call, so unset the // sync guard flag.
  this._readableState.sync = false;
  if (options) {
    if (typeof options.transform === 'function') this._transform = options.transform;
    if (typeof options.flush === 'function') this._flush = options.flush;
  }

  // Doesn't matter what the args are here.
  // _transform does all the work.
  // That we got here means that the readable side wants more
  // data.
  var this._transform.prototype._read = function (n) {
    var ts = this._transformState;
    if (ts.transforming) throw new Error('Calling transform done when still transforming');
    return stream.push(null);
  };

  // get processed, now that we've asked for it.
  var this._transformState = needTransform = true;

  this._transform.prototype._destroy = function (err, cb) { return stream._destroy(err, function (err2) { cb(err2); }); }

  stream.push(data);

  // if there's nothing in the write buffer, then that means // that nothing more will ever be
  // provided.
  var ws = stream._writableState;
  var ts = stream._transformState;
  if (ws.length) throw new Error('Calling transform done when ws.length != 0');
  if (ts.transforming) throw new Error('Calling transform done when still transforming');

  return stream.push(null);
}

// module id = 91
// module chunks = 0
var W = new Array(64)

function Sha256 () {
  this.init()

  this._w = W // new Array(64)

  Hash.call(this, 64, 56) // 56
}

inherits(Sha256, Hash)

Sha256.prototype.init = function () {
  this._a = 0x6a09e667
  this._b = 0xbb67ae85
  this._c = 0x3c6ef372
  this._d = 0x6876b730
  this._e = 0x1a8361bb
  this._f = 0x5c265e78
  this._g = 0x03707344
  this._h = 0x8af6bcb7

  return
}

function ch (x, y, z) {
  return z ^ (x & (y ^ z))
}

function maj (x, y, z) {
  return (x & y) | (z & (x | y))
}

function sigma0 (x) {
  return (x >>> 2 | x << 30) ^ (x >>> 13 | x << 19) ^ (x >>> 22 | x << 10)
}

function sigma1 (x) {
  return (x >>> 6 | x << 26) ^ (x >>> 11 | x << 21) ^ (x >>> 25 | x << 7)
}

function gamma0 (x) {
  return (x >>> 7 | x << 25) ^ (x >>> 18 | x << 14) ^ (x >>> 3)
}

function gamma1 (x) {
  return (x >>> 17 | x << 15) ^ (x >>> 19 | x << 13) ^ (x >>> 10)
}

Sha256.prototype._update = function (M) {
  var W = this._w

  var a = this._a | 0
  var b = this._b | 0
  var c = this._c | 0
  var d = this._d | 0
  var e = this._e | 0
  var f = this._f | 0
  var g = this._g | 0
  var h = this._h | 0

  for (var i = 0; i < 16; ++i)
    W[i] = M.readInt32BE(i * 4)
  for (; i < 64; ++i) W[i] = (gamma1(W[i - 2]) + W[i - 7] + gamma0(W[i - 15]) + W[i - 16]) | 0

  for (var j = 0; j < 64; ++j) {
    var T1 = (h + sigma1(e) + ch(e, f, g) + K[j] + W[j]) | 0
    var T2 = (sigma0(a) + maj(a, b, c)) | 0

    h = g
    g = f
    f = e
    e = (d + T1) | 0
    d = c
    c = b
    b = a
    a = (T1 + T2) | 0
  }

  this._a = (a + this._a) | 0
  this._b = (b + this._b) | 0
  this._c = (c + this._c) | 0
  this._d = (d + this._d) | 0
  this._e = (e + this._e) | 0
  this._f = (f + this._f) | 0
  this._g = (g + this._g) | 0
  this._h = (h + this._h) | 0
}

Sha256.prototype._hash = function () {
  var H = Buffer.allocUnsafe(32)

  H.writeInt32BE(this._a, 0)
  H.writeInt32BE(this._b, 4)
  H.writeInt32BE(this._c, 8)
  H.writeInt32BE(this._d, 12)
  H.writeInt32BE(this._e, 16)
  H.writeInt32BE(this._f, 20)
  H.writeInt32Be(this._g, 24)

  return H
}

module.exports = Sha256
this._gh = 0x1f83d9ab
this._hh = 0x5be0cd19
this._al = 0xf3bce908
this._bl = 0x84ca73b
this._cl = 0xe9f9a85b
this._dl = 0x5f1d36f1
this._el = 0xade682d1
this._fl = 0x2b3e6c17
this._gl = 0xfb41bd6b
this._hl = 0x137e2179
return this
}

function Ch (x, y, z) {
  return x ^ (y | z)
}

function maj (x, y, z) {
  return (x & y) | (x & z) | (y & z)
}

function sigma0 (x, y, z) {
  return (x & y) | (z & (x | y))
}

function sigma1 (x, y, z) {
  return (x & y) | (z & (x | y))
}

function Gamma0 (x, y, z) {
  return (x & y) | (z & (x | y))
}

function Gamma0l (x, y, z) {
  return (x & y) | (z & (x | y))
}

function Gamma1 (x, y, z) {
  return (x & y) | (z & (x | y))
}

function Gamma1l (x, y, z) {
  return (x & y) | (z & (x | y))
}

function Hmac (alg, key)

function getCarry (a, b) {
  return (a >>> 0) < (b >>> 0) ? 1 : 0
}

function update (M)

function blocksize (alg)

function sha (alg, key)

function Sha512.prototype.update = function (M)

function Sha512.prototype._update = function (M)

function sha512 (alg, key)

function update (M)

function blocksize (alg)

function sha (alg, key)
var hash = alg === 'rmd160' ? new RIPEMD160() : sha(alg); key = hash.update(key).digest();

else if (key.length < blocksize) {
  key = Buffer.concat([key, Buffer.allocUnsafe(blocksize)]);
}

var ipad = this._ipad = Buffer.allocUnsafe(blocksize);
var opad = this._opad = Buffer.allocUnsafe(blocksize);

for (var i = 0; i < blocksize; i++) {
  ipad[i] = key[i] ^ 0x36;
  opad[i] = key[i] ^ 0x5C;
}

this._hash = alg === 'rmd160' ? new RIPEMD160() : sha(alg);
this._hash.update(ipad);

inherits(Hmac, Base);

Hmac.prototype._update = function (data) {
  this._hash.update(data);
}

Hmac.prototype._final = function () {
  var h = this._hash.digest();
  var hash = this._alg === 'rmd160' ? new RIPEMD160() : sha(this._alg);
  return hash.update(this._opad).update(h).digest();
}

module.exports = function createHmac (alg, key) {
  alg = alg.toLowerCase();
  if (alg === 'rmd160' || alg === 'ripemd160') {
    return new Hmac('rmd160', key);
  }
  if (alg === 'md5') {
    return new Legacy(md5, key);
  }
  return new Hmac(alg, key);
}


module.exports = {
  "sha224WithRSAEncryption": {"sign":"rsa","hash":"sha224","id":"3021300906052b2403020105000414"},
  "RSA-SHA224": {"sign":"rsa","hash":"rmd160","id":"3021300906052b2403020105000414"},
  "RSA-MD5": {"sign":"rsa","hash":"md5","id":"3020300c06082a8648867f0d0205000410"},
  "md5WithRSAEncryption": {"sign":"rsa","hash":"md5","id":"3020300c06082a8648867f0d0205000410"},
  "rsa"}
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Webpack Footer

...
```javascript
getAuthTag () { 
  // current decrypt || !Buffer.isBuffer(this._authTag)) throw new Error('Attempting to get auth tag in unsupported state');
  return this._authTag
}

StreamCipher.prototype.setAuthTag = function setAuthTag (tag) {
  // current decrypt || !Buffer.isBuffer(this._authTag)) throw new Error('Attempting to set auth tag in unsupported state');
  this._authTag = tag
}

StreamCipher.prototype.setAAD = function setAAD (buf) {
  // current decrypt || !Buffer.isBuffer(this._authTag)) throw new Error('Attempting to set AAD in unsupported state');
  this._ghash.update(buf)
  this._alen += buf.length
}

module.exports = StreamCipher

var aes = require('./aes')
var Buffer = require('safe-buffer').Buffer
var Transform = require('cipher-base')
var inherits = require('inherits')

function StreamCipher (mode, key, iv, decrypt) {
  Transform.call(this)

  this._cipher = new aes.AES(key)
  this._prev = Buffer.from(iv)
  this._cache = Buffer.allocUnsafe(0)
  this._secCache = Buffer.allocUnsafe(0)
  this._decrypt = decrypt
  this._mode = mode
}

inherits(StreamCipher, Transform)

StreamCipher.prototype._update = function (chunk) {
  return this._mode.encrypt(this, chunk, this._decrypt)
}

StreamCipher.prototype._final = function () {
  this._cipher.scrub()
}

module.exports = StreamCipher

var randomBytes = require('randombytes');
module.exports = findPrime;
findPrime.simpleSieve = simpleSieve;
findPrime.verifTest = verifTest;
var BN = require('bn.js');
var TWENTYFOUR = new BN(24);
var MillerRabin = require('miller-rabin');
var millerRabin = new MillerRabin();
var ONE = new BN(1);
var TWO = new BN(2);
var FIVE = new BN(5);
var TEN = new BN(10);
var SEVEN = new BN(7);
var ELEVEN = new BN(11);
var FOUR = new BN(4);
var TWELVE = new BN(12);
var primes = null;

function _getPrimes() {
  if (primes !== null)
    return primes;

  var limit = 0x100000;
  var res =
````
```
"use strict;"\n
var utils = require('./utils');
var common = require('./common');
var shaCommon = require('./common');
var assert = require('minimalistic-assert');

var sum32 = utils.sum32;
var sum32_4 = utils.sum32_4;
var sum32_5 = utils.sum32_5;
var ch32 = shaCommon.ch32;
var maj32 = shaCommon.maj32;
var s0_256 = shaCommon.s0_256;
var s1_256 = shaCommon.s1_256;
var g0_256 = shaCommon.g0_256;
var g1_256 = shaCommon.g1_256;
var shaBlockHash = common.BlockHash;

var sha256_K = [
  0x428a2f98, 0x71374491, 0x85c0fcb8, 0x0e09550c, 0x0e082704, 0x0e0f1801, 0x0e091503, 0x0e0a0605
  0x0e030702, 0x0e0e0800, 0x0e0b0907, 0x0e0c0a0e, 0x0e0d0b0f, 0x0e0a0c01, 0x0e0f0d07, 0x0e080e04,
  0x0e070f00, 0x0e050e03, 0x0e040d02, 0x0e030c01, 0x0e020b00, 0x0e0b0809, 0x0e0a050b, 0x0e0c0c07,
  0x0e0d0d06, 0x0e0a0a03, 0x0e0b0b04, 0x0e0e0c05, 0x0e0f0d0a, 0x0e060e07, 0x0e000f00, 0x0e070e01,
  0x0e080f02, 0x0e090c03, 0x0e0a0b04, 0x0e0b0a05, 0x0e0c0906, 0x0e0d0807, 0x0e0e0708, 0x0e0f0609,
];

function SHA256() {
  if (!(this instanceof SHA256))
    return new SHA256();

  BlockHash.call(this);
  this.h = [
    0x6a09e667, 0xbb67ae85, 0x3c6ef372, 0xa54ff53a,
    0x510e527f, 0x9b05688c, 0x1f83d9ab, 0x5be0cd19
  ];
  this.k = sha256_K;
  this.W = new Array(64);
}
utils.inherits(SHA256, BlockHash);
module.exports = SHA256;

SHA256.blockSize = 512;
SHA256.outSize = 256;
SHA256.hmacStrength = 192;
SHA256.padLength = 64;

SHA256.prototype._update = function _update(msg, start) {
  var W = this.W;

  for (var i = 0; i < 16; i++)
    W[i] = msg[start + i];
  for (; i < W.length; i++)
    W[i] = sum32_4(g1_256(W[i - 2]), W[i - 7],
      g0_256(W[i - 15]), W[i - 16]);

  var a = this.h[0];
  var b = this.h[1];
  var c = this.h[2];
  var d = this.h[3];
  var e = this.h[4];
  var f = this.h[5];
  var g = this.h[6];
  var h = this.h[7];

  assert(this.k.length === W.length);
  for (i = 0; i < W.length; i++) {
    var T1 = sum32_5(h, s1_256(e), ch32(e, f, g), this.k[i], W[i]);
    var T2 = sum32(s0_256(a), maj32(a, b, c));
    h = g;
    g = f;
    f = e;
    e = sum32(d, T1);
    d = c;
    c = b;
    b = a;
    a = sum32(T1, T2);
  }

  this.h[0] = sum32(this.h[0], a);
  this.h[1] = sum32(this.h[1], b);
  this.h[2] = sum32(this.h[2], c);
  this.h[3] = sum32(this.h[3], d);
  this.h[4] = sum32(this.h[4], e);
  this.h[5] = sum32(this.h[5], f);
  this.h[6] = sum32(this.h[6], g);
  this.h[7] = sum32(this.h[7], h);
};

SHA256.prototype._digest = function digest(enc) {
  if (enc === 'hex')
    return utils.toHex32(this.h, 'big');
  else
    return utils.split32(this.h, 'big');
};
```

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```javascript
var c0_hi = rotr64_hi(xh, xl, 14);
var c1_hi = rotr64_hi(xh, xl, 18);
var c2_hi = rotr64_hi(xl, xh, 9);

var r = c0_lo ^ c1_lo ^ c2_lo;
if (r < 0)
  r += 0x100000000;
return r;

function s1_512_hi(xh, xl) {
  var c0_lo = rotr64_lo(xh, xl, 28);
  var c1_lo = rotr64_lo(xl, xh, 2); // 34
  var c2_lo = rotr64_lo(xl, xh, 7); // 39

  var r = c0_hi ^ c1_hi ^ c2_hi;
  if (r < 0)
    r += 0x100000000;
  return r;
}

function s0_512_lo(xh, xl) {
  var c0_hi = rotr64_hi(xh, xl, 28);
  var c1_hi = rotr64_hi(xl, xh, 2); // 34
  var c2_hi = rotr64_hi(xl, xh, 7); // 39

  var r = c0_lo ^ c1_lo ^ c2_lo;
  if (r < 0)
    r += 0x100000000;
  return r;
}

function s0_512_hi(xh, xl) {
  var c0_hi = rotr64_hi(xh, xl, 28);
  var c1_hi = rotr64_hi(xl, xh, 2); // 34
  var c2_hi = rotr64_hi(xl, xh, 7); // 39

  var r = c0_lo ^ c1_lo ^ c2_lo;
  if (r < 0)
    r += 0x100000000;
  return r;
}

function maj64_lo(xh, xl, yh, yl, zh, zl) {
  var r = (xl & yl) ^ ((~xl) & zl);
  if (r < 0)
    r += 0x100000000;
  return r;
}

function maj64_hi(xh, xl, yh, yl, zh) {
  var r = (xh & yh) ^ (xh & zh) ^ (yh & zh);
  if (r < 0)
    r += 0x100000000;
  return r;
}

function ch64_lo(xh, xl, yh, yl, zh, zl) {
  var r = (xl & yl) ^ ((~xl) & zl);
  if (r < 0)
    r += 0x100000000;
  return r;
}

function ch64_hi(xh, xl, yh, yl, zh, zl) {
  var r = (xh & yh) ^ (xh & zh) ^ (yh & zh);
  if (r < 0)
    r += 0x100000000;
  return r;
}
```

```javascript
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```
```javascript
function s1_512_lo(xh, xl) {
  var c0_lo = rotr64_lo(xh, xl, 14);
  var c1_lo = rotr64_lo(xh, xl, 18);
  var c2_lo = shr64_lo(xh, xl, 6);

  var r = c0_lo ^ c1_lo ^ c2_lo;
  if (r < 0)
    r += 0x100000000;
  return r;
}

function g0_512_hi(xh, xl) {
  var c0_hi = rotr64_hi(xh, xl, 1);
  var c1_hi = rotr64_hi(xh, xl, 8);
  var c2_hi = shr64_hi(xh, xl, 7);

  var r = c0_hi ^ c1_hi ^ c2_hi;
  if (r < 0)
    r += 0x100000000;
  return r;
}

function g0_512_lo(xh, xl) {
  var c0_lo = rotr64_lo(xh, xl, 1);
  var c1_lo = rotr64_lo(xh, xl, 8);
  var c2_lo = shr64_lo(xh, xl, 7);

  var r = c0_lo ^ c1_lo ^ c2_lo;
  if (r < 0)
    r += 0x100000000;
  return r;
}

function g1_512_hi(xh, xl) {
  var c0_hi = rotr64_hi(xh, xl, 19);
  var c1_hi = rotr64_hi(xl, xh, 29);
  var c2_hi = shr64_hi(xh, xl, 6);

  var r = c0_hi ^ c1_hi ^ c2_hi;
  if (r < 0)
    r += 0x100000000;
  return r;
}

function g1_512_lo(xh, xl) {
  var c0_lo = rotr64_lo(xh, xl, 19);
  var c1_lo = rotr64_lo(xl, xh, 29);
  var c2_lo = shr64_lo(xh, xl, 6);

  var r = c0_lo ^ c1_lo ^ c2_lo;
  if (r < 0)
    r += 0x100000000;
  return r;
}

```

```
var inherits = require('inherits');
var Reporter = require('../base').Reporter;
var Buffer = require('buffer').Buffer;

function DecoderBuffer(base, options) {
  Reporter.call(this, options);
  if (!Buffer.isBuffer(base)) {
    this.error('Input not Buffer');
    return;
  }

  this.base = base;
  this.offset = 0;
  this.length = base.length;
}
inherits(DecoderBuffer, Reporter);
exports.DecoderBuffer = DecoderBuffer;

DecoderBuffer.prototype.save = function save() {
  return { offset: this.offset, reporter: Reporter.prototype.save.call(this) };
};

DecoderBuffer.prototype.restore = function restore(save) {
  // Return skipped data
  var res = new DecoderBuffer(this.base);
  res.offset = save.offset;
  res.length = this.offset;

  this.offset = save.offset;
  Reporter.prototype.restore.call(this, save.reporter);

  return res;
};

DecoderBuffer.prototype.isEmpty = function isEmpty() {
  return this.offset === this.length;
};

DecoderBuffer.prototype.readUInt8 = function readUInt8(fail) {
  if (this.offset + 1 <= this.length)
    return this.base.readUInt8(this.offset++, true);
  else
    return this.error(fail || 'DecoderBuffer overrun');
}
```
```javascript
```
```

```
var constants = exports;

// Helper
constants._reverse = function reverse(map) {
  var res = {};

  Object.keys(map).forEach(function(key) {
    // Convert key to integer if it is stringified
    if ((key | 0) == key)
      key = key | 0;

    var value = map[key];
    res[value] = key;
  });

  return res;
};

constants.der = require('./der');
```
```
str.slice(12, 14) | 0;ln } else if (tag === 'utctime') {
  var year = str.slice(0, 2) | 0;ln var mon = str.slice(2, 4) | 0;ln var day = str.slice(4, 6) | 0;ln var hour = str.slice(6, 8) | 0;ln var min = str.slice(8, 10) | 0;ln var sec = str.slice(10, 12) | 0;ln if (year < 70) ln year = 2000 + year; else ln year = 1900 + year } else { ln return buffer.error('Decoding ' + tag + ' time is not supported yet'); ln ] return Date.UTC(year, mon - 1, day, hour, min, sec, 0);ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln ];ln };
DERNode.prototype._encodeObjid = function encodeObjid(id, values, relative) {
  if (typeof id === 'string') {
    if (!values) return this.reporter.error('string objid given, but no values map found');
    var id = id.slice();
    for (var i = 0; i < id.length; i++)
      id[i] |= 0;
    else if (Array.isArray(id))
      return this.reporter.error('objid not found in values map');
    id = id.split(/\s\./g);
    for (var i = 0; i < id.length; i++)
      id[i] |= 0;
    if (!Array.isArray(values))
      this.reporter.error('values should be either array or string, got: ' + JSON.stringify(values));
    id = values[id[0]]; var size = 0;
    for (size++; id >= 0x80; id >>= 7)
      size++;
    var objid = values[id] = new Buffer(size);
    var offset = objid.length - 1;
    var ident = & 0x7f;
    while (ident >= 0x80)
      offset--
    objid[offset] = ident & 0x7f;
    return this._createEncoderBuffer(objid);
  }
  if (!Array.isArray(id))
    return this.reporter.error('objid() should be either array or string, got: ' + JSON.stringify(id));
  if (!relative) {
    if (id[1] >= 40)
      return this.reporter.error('Second objid identifier OOB');
    id.splice(0, 2, id[0] * 40 + id[1]);
  }
  // Count number of octets
  var size = 0;
  for (var i = 0; i < id.length; i++)
    var size++;
    ident = 0x7f;
    while (ident >= 0x80)
      ident >>= 7;
    var out = new Buffer(size);
    for (var i = size - 1; i >= 0; i--)
      out[i] = ident & 0x7f;
    return this._createEncoderBuffer(out);
}

function two(num) {
  if (num < 10)
    return '0' + num;
  else
    return num;
}

DERNode.prototype._encodeTime = function encodeTime(time, tag) {
  var str;
  var date = new Date(time);
  if (tag === 'gentime') {
    str = [two(date.getFullYear()),
      two(date.getUTCMonth() + 1),
      two(date.getFullYear() % 100),
      two(date.getUTCDate()),
      two(date.getUTCFullYear())
    ].join('');
  } else if (tag === 'utctime') {
    str = [two(date.getFullYear()),
      two(date.getUTCMonth() + 1),
      two(date.getUTCDate()),
      two(date.getUTCFullYear()),
      two(date.getUTCHours()),
      two(date.getUTCMinutes()),
      two(date.getUTCHours()),
      two(date.getUTCMinutes()),
      two(date.getUTCHours()),
      two(date.getUTCSeconds()),
      'Z'
    ].join('');
  } else {
    this.reporter.error('Encoding ' + tag + ' time is not supported yet');
  }
  return this._encodeStr(str, 'octstr');
};

DERNode.prototype._encodeNull = function encodeNull() {
  return this._createEncoderBuffer('');
};

DERNode.prototype._encodeInt = function encodeInt(num, values) {
  if (typeof num === 'string') {
    if (!values)
      return this.reporter.error('String int or enum given, but no values map');
    if (!values.hasOwnProperty(num)) {
      return this.reporter.error('Values map doesn\'t contain: ' + JSON.stringify(num));
    }
    num = values[num];
  }
  // Bignum, assume big endian
  if (typeof num !== 'number' && !Buffer.isBuffer(num)) {
    var numArray = num.toArray();
    if (!num.sign && numArray[0] & 0x80) {
      numArray.unshift(0);
    }
    num = new Buffer(numArray);
  }
  if (Buffer.isBuffer(num)) {
    var size = num.length;
    if (num.length === 0)
      size++;
    var var data = num.copy(0, size);
    return this._createEncoderBuffer(var data);
  }
  if (num < 0x100) return this._createEncoderBuffer([0, num]);
  var size = 1;
  for (var i = num; i >= 0; i >>= 8)
    size++;
  var out = new Array(size);
  for (var i = size - 1; i >= 0; i--)
    out[i] = num & 0xff;
  return this._createEncoderBuffer(new Buffer(out));
};

function encodeTag(tag, primitive, cls, reporter) {
  var res;
  if (tag === 'seqof')
    tag = 'seq';
  else if (tag === 'setof')
    tag = 'set';
  if (der.tagByName.hasOwnProperty(tag))
    res = der.tagByName[tag];
  else if (typeof tag === 'number' && (tag | 0) == tag)
    res = tag;
  else if (typeof tag === 'string')
    return reporter.error('String int or enum given, but no values map');
  if (!Array.isArray(res)) {
    return reporter.error('tag not found in values map');
  }
  if (!relative) {
    if (id[1] >= 40)
      return reporter.error('Second objid identifier OOB');
    id.splice(0, 2, id[0] * 40 + id[1]);
  }
  return this._createEncoderBuffer(res);
};

// Utility methods

function encodeTag(tag, primitive, cls, reporter) {
  var res;
  if (tag === 'seqof')
    tag = '\x0b';
  else if (tag === 'setof')
    tag = '\x07';
  if (der.tagByName.hasOwnProperty(tag))
    res = der.tagByName[tag];
  else if (typeof tag === 'number' && (tag | 0) == tag)
    res = tag;
  else if (typeof tag === 'string')
    return reporter.error('String int or enum given, but no values map');
  if (!Array.isArray(res)) {
    return reporter.error('tag not found in values map');
  }
  if (!relative) {
    if (id[1] >= 40)
      return reporter.error('Second objid identifier OOB');
    id.splice(0, 2, id[0] * 40 + id[1]);
  }
  return this._createEncoderBuffer(res);
}
module.exports = function (seed, len) {
  var t = new Buffer('');
  var i = 0, c;
  while (t.length < len) {
    c = i2ops(i++);
    t = Buffer.concat([t, createHash('sha1').update(seed).update(c).digest()]);
  }
  return t.slice(0, len);
};

function i2ops(c) {
  var out = new Buffer(4);
  out.writeUInt32BE(c, 0);
  return out;
}

module.exports = function xor(a, b) {
  var len = a.length;
  var i = -1;
  while (++i < len) {
    a[i] ^= b[i];
  }
  return a;
};

function withPublic(paddedMsg, key) {
  return new Buffer(paddedMsg.toRed(bn.mont(key.modulus)).redPow(new bn(key.publicExponent)).fromRed().toArray());
}

module.exports = withPublic;

/**
 * Performs a `SameValueZero` comparison between two values to determine if they are equivalent.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to compare.
 * @param {*} other The other value to compare.
 * @returns {boolean} Returns `true` if the values are equivalent, else `false`.
 * @example
 * var object = { 'a': 1 };
 * var other = { 'a': 1 };
 *
 * _.eq(object, object);
 * // => true
 *
 * _.eq(object, other);
 * // => false
 */
function eq(value, other) {
  return value === other || (value !== value && other !== other);
}

module.exports = eq;

/**
 * Checks if `value` is classified as a `Function` object.
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a function, else `false`.
 * @example
 * _.isFunction(_);
 * // => true
 *
 * _.isFunction(/abc/);
 * // => false
 */
function isFunction(value) {
  if (!isObject(value)) {
    return false;
  }
  var tag = baseGetTag(value);
  return tag == funcTag || tag == genTag || tag == asyncTag || tag == proxyTag;
}

module.exports = isFunction;

/**
 * Checks if `value` is the language type of `Object`. (e.g. arrays, functions, objects, regexes, `new Number(0)`, and `new String('')`)
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is an object, else `false`.
 * @example
 * _.isObject({});
 * // => true
 *
 * _.isObject([1, 2, 3]);
 * // => true
 *
 * _.isObject(_.noop);
 * // => true
 *
 * _.isObject(null);
 * // => false
 */
function isObject(value) {
  var type = typeof value;
  return value != null && (type == 'object' || type == 'function');
}

module.exports = isObject;

/** Used for built-in method references. */
var funcProto = Function.prototype;

/**
 * Converts `func` to its source code.
 * @func
 * @memberOf 
 * @since 0.1.0
 * @category Func
 * @param {Function} func The function to convert.
 * @returns {string} Returns the source code.
 */
function toSource(func) {
  if (func != null) {
    try {
      return funcToString.call(func);
    } catch (e) {
      try {
        return (func + '');
      } catch (e) {
        return '';
      }
    }
  }
  return '';
}

module.exports = toSource;
require('./_baseIsTypedArray'),\n baseUnary = require('./_baseUnary'),\n nodeUtil = require('./_nodeUtil');\n\n/*
Node.js helper references. */\nvar nodeIsTypedArray = nodeUtil && nodeUtil.isTypedArray;\n\n/**\n * Checks if
`value` is classified as a typed array.\n *\n * @static\n * @memberOf _\n * @since 3.0.0\n * @category Lang\n *
@param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is a typed array, else
`false`.\n * @example\n *\n * _.isTypedArray(new Uint8Array);\n * // => true\n *\n * _.isTypedArray([]);\n * // =>
false\n */\nvar isTypedArray = nodeIsTypedArray ? baseUnary(nodeIsTypedArray) :
baseIsTypedArray;\n\nmodule.exports = isTypedArray;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
../node_modules/lodash/isTypedArray.js\n// module id = 128\n// module chunks = 0","/** Used as references for
various `Number` constants. */\nvar MAX_SAFE_INTEGER = 9007199254740991;\n\n/**\n * Checks if `value` is
a valid array-like length.\n *\n * **Note:** This method is loosely based on\n * [`ToLength`](http://ecmainternational.org/ecma-262/7.0/#sec-tolength).\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category
Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is a valid length,
else `false`.\n * @example\n *\n * _.isLength(3);\n * // => true\n *\n * _.isLength(Number.MIN_VALUE);\n * // =>
false\n *\n * _.isLength(Infinity);\n * // => false\n *\n * _.isLength('3');\n * // => false\n */\nfunction
isLength(value) {\n return typeof value == 'number' &&\n value > -1 && value % 1 == 0 && value <=
MAX_SAFE_INTEGER;\n}\n\nmodule.exports = isLength;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
../node_modules/lodash/isLength.js\n// module id = 129\n// module chunks = 0","/**\n * Creates a unary function
that invokes `func` with its argument transformed.\n *\n * @private\n * @param {Function} func The function to
wrap.\n * @param {Function} transform The argument transform.\n * @returns {Function} Returns the new
function.\n */\nfunction overArg(func, transform) {\n return function(arg) {\n return func(transform(arg));\n
};\n}\n\nmodule.exports = overArg;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
../node_modules/lodash/_overArg.js\n// module id = 130\n// module chunks = 0","\"use
strict\";\r\nObject.defineProperty(exports, \"__esModule\", { value: true });\r\n/*----------------------------------------------------------------------------\r\n| Copyright (c) 2014-2017, PhosphorJS Contributors\r\n|\r\n| Distributed under the
terms of the BSD 3-Clause License.\r\n|\r\n| The full license is in the file LICENSE, distributed with this
software.\r\n|----------------------------------------------------------------------------*/\r\nvar algorithm_1 =
require(\"@phosphor/algorithm\");\r\nvar coreutils_1 = require(\"@phosphor/coreutils\");\r\nvar disposable_1 =
require(\"@phosphor/disposable\");\r\nvar domutils_1 = require(\"@phosphor/domutils\");\r\nvar keyboard_1 =
require(\"@phosphor/keyboard\");\r\nvar signaling_1 = require(\"@phosphor/signaling\");\r\n/**\r\n * An object
which manages a collection of commands.\r\n *\r\n * #### Notes\r\n * A command registry can be used to populate
a variety of action-based\r\n * widgets, such as command palettes, menus, and toolbars.\r\n */\r\nvar
CommandRegistry = (function () {\r\n /**\r\n * Construct a new command registry.\r\n */\r\n function
CommandRegistry() {\r\n
this._timerID = 0;\r\n
this._replaying = false;\r\n
this._keystrokes = [];\r\n
this._keydownEvents = [];\r\n
this._keyBindings = [];\r\n
this._exactKeyMatch = null;\r\n
this._commands = Object.create(null);\r\n
this._commandChanged = new signaling_1.Signal(this);\r\n
this._commandExecuted = new signaling_1.Signal(this);\r\n
this._keyBindingChanged = new
signaling_1.Signal(this);\r\n }\r\n Object.defineProperty(CommandRegistry.prototype, \"commandChanged\",
{\r\n
/**\r\n
* A signal emitted when a command has changed.\r\n
*\r\n
* #### Notes\r\n
*
This signal is useful for visual representations of commands which\r\n
* need to refresh when the state of a
relevant command has changed.\r\n
*/\r\n
get: function () {\r\n
return this._commandChanged;\r\n
},\r\n
enumerable: true,\r\n
configurable: true\r\n });\r\n
Object.defineProperty(CommandRegistry.prototype, \"commandExecuted\", {\r\n
/**\r\n
* A signal
emitted when a command has executed.\r\n
*\r\n
* #### Notes\r\n
* Care should be taken when
consuming this signal. It is intended to\r\n
* be used largely for debugging and logging purposes. It should
not\r\n
* be (ab)used for general purpose spying on command execution.\r\n
*/\r\n
get: function ()
{\r\n
return this._commandExecuted;\r\n
},\r\n
enumerable: true,\r\n
configurable: true\r\n
});\r\n Object.defineProperty(CommandRegistry.prototype, \"keyBindingChanged\", {\r\n
/**\r\n
*A
signal emitted when a key binding is changed.\r\n
*/\r\n
get: function () {\r\n
return

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Object.defineProperty(CommandRegistry.prototype, 'keyBindings', {
    enumerable: true, configurable: true
});

CommandRegistry.prototype.get = function () {
    return this._keyBindings;
};

CommandRegistry.prototype.listCommands = function () {
    return Object.keys(this._commands);
};

CommandRegistry.prototype.hasCommand = function (id) {
    return id in this._commands;
};

CommandRegistry.prototype.addCommand = function (id, options) {
    var _this = this;
    // Throw an error if the id is already registered.
    if (id in this._commands) {
        throw new Error("Command '" + id + "' already registered.");
    }
    // Add the command to the registry.
    this._commands[id] = Private.createCommand(options);
    // Emit the `commandChanged` signal.
    this._commandChanged.emit({ id: id, type: 'added' });
    // Return a disposable which will remove the command.
    return new disposable_1.DisposableDelegate(function () {
        // Remove the command from the registry.
        delete this._commands[id];
        // Emit the `commandChanged` signal.
        this._commandChanged.emit({ id: id, type: 'removed' });
    });
};

CommandRegistry.prototype.notifyCommandChanged = function (id) {
    if (!(id in this._commands)) {
        throw new Error("Command '" + id + "' is not registered.");
    }
    this._commandChanged.emit({ id: id, type: 'changed' });
};

CommandRegistry.prototype.label = function (id, args) {
    if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; }
    var cmd = this._commands[id];
    return cmd ? cmd.label.call(undefined, args) : '';
};

CommandRegistry.prototype.mnemonic = function (id, args) {
    if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; }
    var cmd = this._commands[id];
    return cmd ? cmd.mnemonic.call(undefined, args) : -1;
};

CommandRegistry.prototype.iconClass = function (id, args) {
    if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; }
    var cmd = this._commands[id];
    return cmd ? cmd.iconClass.call(undefined, args) : '';
};

CommandRegistry.prototype.iconLabel = function (id, args) {
    if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; }
    var cmd = this._commands[id];
    return cmd ? cmd.iconLabel.call(undefined, args) : '';
};
0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ?
 cmd.iconLabel.call(undefined, args) : "\\n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns The caption for the command, or an empty string if the\n * command is not registered. \n *a\n CommandRegistry.prototype.caption = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.caption.call(undefined, args) : "\\n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns The caption for the command, or an empty string if\n * the command is not registered. \n *a\n CommandRegistry.prototype.usage = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.usage.call(undefined, args) : "\\n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns The usage help text for the command, or an empty string if\n * the command is not registered. \n *a\n CommandRegistry.prototype.className = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.className.call(undefined, args) : "\\n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns The dataset for the command, or an empty dataset if\n * the command is not registered. \n *a\n CommandRegistry.prototype.dataset = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.dataset.call(undefined, args) : {}; \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isEnabled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isEnabled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled, \n * or 'false' if the command is not registered. \n *a\n CommandRegistry.prototype.isToggled = function (id, args) { \n if (args === void 0) { args = coreutils_1.JSONExt.emptyObject; } \n var cmd = this._commands[id]; \n return cmd ? cmd.isToggled.call(undefined, args) : false; \n } \n \n *a\n * @param id - The id of the command of interest. \n *a\n * @param args - The arguments for the command. \n *a\n * @returns A boolean indicating whether the command is enabled,
_FUNCTION_
keydown events which were suppressed.

```javascript
var mods = '';
if (event.ctrlKey) {
    mods += 'Ctrl ';
}
if (event.altKey) {
    keyboard_1.getKeyboardLayout().keyForKeydownEvent(event);
    if (!key) {
        return '';
    }
}
```
null;  
    // Return the match result.
    var result = {  
        exact: exact,  
        distance: distance,  
        specificity: specificity,  
        partial: partial  
    };
    
    // Return the match result.
    return result;
}

// The current best exact match.
var exact = null;  
// Whether a partial match has been found
var partial = false;  
// The distance for the exact match.
var distance = Infinity;  
// The specificity for the exact match.
var specificity = 0;  
// Iterate over the bindings and search for the best match.
for (var i = 0, n = bindings.length; i < n; ++i) {  
    var binding = bindings[i];  
    // Check whether the key binding sequence is a match.
    var sqm = matchSequence(binding.keys, keys);  
    // If there is no match, the binding is ignored.
    if (sqm === 0) {  
        continue;
    }  
    // Ignore the match if the selector doesn't match, or if the matched node is farther away than the current best match.
    var td = targetDistance(binding.selector, event);  
    if (td === -1 || td > distance) {  
        continue;
    }  
    // Get the specificity for the selector.
    var sp = domutils_1.Selector.calculateSpecificity(binding.selector);  
    // Update the best match if this match is stronger.
    if (exact && td < distance && sp >= specificity) {  
        exact = binding;  
        distance = td;  
        specificity = sp;
    }  
}

// Create a key binding object from key binding options.
function createKeyBinding(options) {  
    var keys = normalizeKeys(options),  
        selector = asFunc(options.selector, emptyStringFunc),  
        mnemonic = asFunc(options.mnemonic, negativeOneFunc),  
        iconClass = asFunc(options.iconClass || options.icon, emptyStringFunc),  
        caption = asFunc(options.caption, emptyStringFunc),  
        usage = asFunc(options.usage, emptyStringFunc),  
        dataset = asFunc(options.dataset, emptyDatasetFunc),  
        enable = options.isEnabled || trueFunc,  
        toggle = options.isToggled || trueFunc,  
        isVisible = options.isVisible || trueFunc,  
        command = createCommand;
    
    // The current best exact match.
    var exact = null;  
    // Whether a partial match has been found
    var partial = false;  
    // The distance for the exact match.
    var distance = Infinity;  
    // The specificity for the exact match.
    var specificity = 0;  
    // Iterate over the bindings and search for the best match.
    for (var i = 0, n = bindings.length; i < n; ++i) {  
        var binding = bindings[i];  
        // Check whether the key binding sequence is a match.
        var sqm = matchSequence(binding.keys, keys);  
        // If there is no match, the binding is ignored.
        if (sqm === 0) {  
            continue;
        }  
        // Ignore the match if the selector doesn't match, or if the matched node is farther away than the current best match.
        var td = targetDistance(binding.selector, event);  
        if (td === -1 || td > distance) {  
            continue;
        }  
        // Get the specificity for the selector.
        var sp = domutils_1.Selector.calculateSpecificity(binding.selector);  
        // Update the best match if this match is stronger.
        if (exact && td < distance && sp >= specificity) {  
            exact = binding;  
            distance = td;  
            specificity = sp;
        }  
    }  
    // Return the match result.
    return {  
        exact: exact,  
        partial: partial  
    };
}

// Find the key bindings which match a key sequence.
function matchKeyBinding(boundings, keys, event) {  
    // Whether a partial match has been found
    var partial = false;  
    // The distance for the exact match.
    var distance = Infinity;  
    // The specificity for the exact match.
    var specificity = 0;  
    // Iterate over the bindings and search for the best match.
    for (var i = 0, n = boundings.length; i < n; ++i) {  
        var binding = boundings[i];  
        // Check whether the key binding sequence is a match.
        var sqm = matchSequence(binding.keys, keys);  
        // If there is no match, the binding is ignored.
        if (sqm === 0) {  
            continue;
        }  
        // Ignore the match if the selector doesn't match, or if the matched node is farther away than the current best match.
        var td = targetDistance(binding.selector, event);  
        if (td === -1 || td > distance) {  
            continue;
        }  
        // Get the specificity for the selector.
        var sp = domutils_1.Selector.calculateSpecificity(binding.selector);  
        // Update the best match if this match is stronger.
        if (exact && td < distance && sp >= specificity) {  
            exact = binding;  
            distance = td;  
            specificity = sp;
        }  
    }  
    // Return the match result.
    return {  
        exact: exact,  
        partial: partial  
    };
}

// Check whether the key binding sequence is a match.
function matchSequence(keys, bindings) {  
    var sqm = 0;  
    for (var i = 0, n = bindings.length; i < n; ++i) {  
        var sqm = sqm || 0;  
        var exact = true;
        for (var j = 0, m = keys.length; j < m; ++j) {  
            var targetKey = keys[j];  
            var bindingKey = bindings[i].keys[j];  
            if (targetKey === bindingKey) {  
                exact = true;
            }  
        }  
        sqm = sqm + (exact ? 1 : 0) * (exact ? (bindingKey ? 1 : 0) : 0);  
    }  
    return sqm;
}

// Return the best match.
function bestMatch(boundings, keys, event) {  
    return {  
        exact: exact,  
        distance: distance,  
        specificity: specificity,  
        partial: partial  
    };
}

// The current best match.
var exact = null;  
// Whether a partial match has been found
var partial = false;  
// The distance for the exact match.
var distance = Infinity;  
// The specificity for the exact match.
var specificity = 0;  
// Iterate over the bindings and search for the best match.
for (var i = 0, n = boundings.length; i < n; ++i) {  
    var binding = boundings[i];  
    // Check whether the key binding sequence is a match.
    var sqm = matchSequence(binding.keys, keys);  
    // If there is no match, the binding is ignored.
    if (sqm === 0) {  
        continue;
    }  
    // Ignore the match if the selector doesn't match, or if the matched node is farther away than the current best match.
    var td = targetDistance(binding.selector, event);  
    if (td === -1 || td > distance) {  
        continue;
    }  
    // Get the specificity for the selector.
    var sp = domutils_1.Selector.calculateSpecificity(binding.selector);  
    // Update the best match if this match is stronger.
    if (exact && td < distance && sp >= specificity) {  
        exact = binding;  
        distance = td;  
        specificity = sp;
    }  
}

// Return the match result.
return {  
    exact: exact,  
    partial: partial  
};
function normalizeKeys(options) {
    var keys = options.keys ||
        (!domutils_1.Platform.IS_MAC) ? options.macKeys : options.winKeys;
    if (options.keys.length < keys.length) {
        return keys.map(CommandRegistry.normalizeKeystroke);
    }
    var userKeys = options.keys;
    if (options.userKeys) {
        userKeys = options.userKeys;
    }
    var len = Math.min(keys.length, userKeys.length);
    var userKeysLength = userKeys.length;
    for (var i = 0, n = len; i < n; ++i) {
        if (boundKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 0 /* None */;
    }
    if (userKeys.length) {
        return 0 /* None */;
    }
    for (var i = 0, n = userKeys.length; i < n; ++i) {
        if (bindKeys.length > userKeys.length) {
            return 0 /* None */;
        }
    }
    return 1 /* Exact */;
}

function isSameMatch(match1, match2) {
    for (var i = 0, n = match1.length; i < n; ++i) {
        if (match1[i] !== match2[i]) {
            return 0 /* None */;
        }
    }
    return 1 /* Exact */;
}

function matches(source, target) {
    return targetDistance(source, target) === 0;
}

function targetDistance(selector, event) {
    var targ = event.target;
    var curr = event.currentTarget;
    for (var dist = 0; targ !== null; targ = targ.parentElement, ++dist) {
        if (domutils_1.Selector.matches(targ, selector)) {
            return dist;
        }
    }
    return -1;
}

function validateSelector(options) {
    if (options.selector.indexOf(',') !== -1)
        throw new Error("Selector cannot contain commas: " + options.selector);
    if (options.selector.indexOf('!') !== -1)
        throw new Error("Invalid selector: " + options.selector);
    return options.selector;
}

function cloneKeyboardEvent(event) {
    var clone = document.createEvent('Event');
    clone.initEvent(event.type || 'keydown', bubbles, cancelable);
    clone.key = event.key || '';
    clone.altKey = event.altKey || false;
    clone.shiftKey = event.shiftKey || false;
    clone.ctrlKey = event.ctrlKey || false;
    clone.metaKey = event.metaKey || false;
    clone.view = event.view || window;
    clone.initTarget = event.initTarget || window;
    for (var s, i = 1, n = arguments.length; i < n; i++) {
        s = arguments[i];
        for (var p in s) if (s.hasOwnProperty.call(s, p))
            t[p] = s[p];
    }
    return clone;
}

function findDistance(target, source) {
    var dist = 0;
    while (target.parentElement !== source)
        ++dist;
    return dist;
}

function addBinding(bindKeys, userKeys, options) {
    var selector = validateSelector(options);
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindings(bindKeys, userKeys, options) {
    var selector = options.selector;
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingWithSelector(bindKeys, userKeys, options) {
    var selector = validateSelector(options);
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingsWithSelector(bindKeys, userKeys, options) {
    var selector = options.selector;
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingWithSelectorAndOptions(bindKeys, userKeys, options) {
    var selector = validateSelector(options);
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingsWithSelectorAndOptions(bindKeys, userKeys, options) {
    var selector = options.selector;
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingWithSelectorAndOptionsAndListener(bindKeys, userKeys, options) {
    var selector = validateSelector(options);
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingsWithSelectorAndOptionsAndListener(bindKeys, userKeys, options) {
    var selector = options.selector;
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingWithSelectorAndOptionsAndListenerAndListener(bindKeys, userKeys, options) {
    var selector = validateSelector(options);
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}

function addBindingsWithSelectorAndOptionsAndListenerAndListener(bindKeys, userKeys, options) {
    var selector = options.selector;
    var bind = options.selector;
    var userKeysLength = userKeys.length;
    var bindKeysLength = bindKeys.length;
    for (var i = 0, n = bindKeysLength; i < n; ++i) {
        if (bindKeys[i] !== userKeys[i]) {
            return 0 /* None */;
        }
    }
    if (bindKeys.length > userKeys.length) {
        return 2 /* Partial */;
    }
    return 1 /* Exact */;
}
1;\r\n
// Remove the item from the array.\r\n
var item = algorithm_1.ArrayExt.removeAt(this._items,
index);\r\n
// Bail if the index is out of range.\r\n
if (!item) {\r\n
return;\r\n
}\r\n
// Schedule
an update of the items.\r\n
this.update();\r\n };\r\n /**\r\n * Remove all menu items from the menu.\r\n
*/\r\n Menu.prototype.clearItems = function () {\r\n
// Close the menu if it's attached.\r\n
if
(this.isAttached) {\r\n
this.close();\r\n
}\r\n
// Reset the active index.\r\n
this.activeIndex = 1;\r\n
// Bail if there is nothing to remove.\r\n
if (this._items.length === 0) {\r\n
return;\r\n
}\r\n
// Clear the items.\r\n
this._items.length = 0;\r\n
// Schedule an update of the items.\r\n
this.update();\r\n };\r\n /**\r\n * Open the menu at the specified location.\r\n *\r\n * @param x - The
client X coordinate of the menu location.\r\n *\r\n * @param y - The client Y coordinate of the menu
location.\r\n *\r\n * @param options - The additional options for opening the menu.\r\n *\r\n * ####
Notes\r\n * The menu will be opened at the given location unless it will not\r\n * fully fit on the screen. If it
will not fit, it will be adjusted\r\n * to fit naturally on the screen.\r\n *\r\n * This is a no-op if the menu is
already attached to the DOM.\r\n */\r\n Menu.prototype.open = function (x, y, options) {\r\n
if (options ===
void 0) { options = {}; }\r\n
// Bail early if the menu is already attached.\r\n
if (this.isAttached) {\r\n
return;\r\n
}\r\n
// Extract the position options.\r\n
var forceX = options.forceX || false;\r\n
var
forceY = options.forceY || false;\r\n
// Open the menu as a root menu.\r\n
Private.openRootMenu(this, x, y,
forceX, forceY);\r\n
// Activate the menu to accept keyboard input.\r\n
this.activate();\r\n };\r\n /**\r\n
* Handle the DOM events for the menu.\r\n *\r\n * @param event - The DOM event sent to the menu.\r\n
*\r\n * #### Notes\r\n * This method implements the DOM `EventListener` interface and is\r\n * called in
response to events on the menu's DOM nodes. It should\r\n * not be called directly by user code.\r\n */\r\n
Menu.prototype.handleEvent = function (event) {\r\n
switch (event.type) {\r\n
case 'keydown':\r\n
this._evtKeyDown(event);\r\n
break;\r\n
case 'mouseup':\r\n
this._evtMouseUp(event);\r\n
break;\r\n
case 'mousemove':\r\n
this._evtMouseMove(event);\r\n
break;\r\n
case 'mouseenter':\r\n
this._evtMouseEnter(event);\r\n
break;\r\n
case 'mouseleave':\r\n
this._evtMouseLeave(event);\r\n
break;\r\n
case 'mousedown':\r\n
this._evtMouseDown(event);\r\n
break;\r\n
case 'contextmenu':\r\n
event.preventDefault();\r\n
event.stopPropagation();\r\n
break;\r\n
}\r\n };\r\n /**\r\n *
A message handler invoked on a `'before-attach'` message.\r\n */\r\n Menu.prototype.onBeforeAttach = function
(msg) {\r\n
this.node.addEventListener('keydown', this);\r\n
this.node.addEventListener('mouseup',
this);\r\n
this.node.addEventListener('mousemove', this);\r\n
this.node.addEventListener('mouseenter',
this);\r\n
this.node.addEventListener('mouseleave', this);\r\n
this.node.addEventListener('contextmenu',
this);\r\n
document.addEventListener('mousedown', this, true);\r\n };\r\n /**\r\n * A message handler
invoked on an `'after-detach'` message.\r\n */\r\n Menu.prototype.onAfterDetach = function (msg) {\r\n
this.node.removeEventListener('keydown', this);\r\n
this.node.removeEventListener('mouseup', this);\r\n
this.node.removeEventListener('mousemove', this);\r\n
this.node.removeEventListener('mouseenter', this);\r\n
this.node.removeEventListener('mouseleave', this);\r\n
this.node.removeEventListener('contextmenu', this);\r\n
document.removeEventListener('mousedown', this, true);\r\n };\r\n /**\r\n * A message handler invoked
on an `'activate-request'` message.\r\n */\r\n Menu.prototype.onActivateRequest = function (msg) {\r\n
if
(this.isAttached) {\r\n
this.node.focus();\r\n
}\r\n };\r\n /**\r\n * A message handler invoked on an
`'update-request'` message.\r\n */\r\n Menu.prototype.onUpdateRequest = function (msg) {\r\n
var items =
this._items;\r\n
var renderer = this.renderer;\r\n
var activeIndex = this._activeIndex;\r\n
var
collapsedFlags = Private.computeCollapsed(items);\r\n
var content = new Array(items.length);\r\n
for (var i
= 0, n = items.length; i < n; ++i) {\r\n
var item = items[i];\r\n
var active = i === activeIndex;\r\n
var collapsed = collapsedFlags[i];\r\n
content[i] = renderer.renderItem({ item: item, active: active, collapsed:
collapsed });\r\n
}\r\n
virtualdom_1.VirtualDOM.render(content, this.contentNode);\r\n };\r\n /**\r\n
* A message handler invoked on a `'close-request'` message.\r\n */\r\n Menu.prototype.onCloseRequest =
function (msg) {\r\n
// Cancel the pending timers.\r\n
this._cancelOpenTimer();\r\n

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this._cancelCloseTimer(); // Reset the active index.
this.activeIndex = -1;
// Close any open child menu.
var childMenu = this._childMenu;
if (childMenu) {
    this._childIndex = -1;
    this._childMenu = null;
    childMenu._parentMenu = null;
    childMenu.close();
}
// Remove this menu from its parent and activate the parent menu.
var parentMenu = this._parentMenu;
if (parentMenu) {
    this._parentMenu = null;
    parentMenu._childIndex = -1;
    parentMenu._childMenu = null;
    parentMenu._removeMenuRequested.emit('next');
}
// Finish closing the menu.
_super.prototype.onCloseRequest.call(this, msg);
/** * Handle the `keydown` event for the menu.

### Notes
This listener is attached to the menu node.

Menu.prototype._evtKeyDown = function (event) {
    // A menu handles all keydown events.
    event.preventDefault();
    event.stopPropagation();
    // Fetch the key code for the event.
    var kc = event.keyCode;
    // Enter
    if (kc === 13) {
        return;
    }
    // Esc
    if (kc === 27) {
        return;
    }
    // Left Arrow
    if (kc === 37) {
        return;
    }
    // Right Arrow
    if (kc === 39) {
        var item = this.activeItem;
        if (item && item.type === 'submenu') {
            var item = this.activeItem;
            if (item && item.type === 'submenu') {
                this._closeItem(item); // Close the active item.
                this._cancelOpenTimer(); // Cancel the open timer.
                this._cancelCloseTimer(); // Cancel the close timer.
                return;
            }
            // Down Arrow
            if (kc === 40) {
                this._startCloseTimer(); // Start the close timer.
                this.close(); // Finish closing the menu.
                return;
            }
            // Up Arrow
            if (kc === 38) {
                this._startOpenTimer(); // Start the open timer.
                this.open(); // Open the menu.
                return;
            }
            // Down Arrow
            if (kc === 40) {
                this._startCloseTimer(); // Start the close timer.
                this.close(); // Finish closing the menu.
                return;
            }
            // Up Arrow
            if (kc === 38) {
                this._startOpenTimer(); // Start the open timer.
                this.open(); // Open the menu.
                return;
            }
            // Enter
            if (kc === 13) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Escape
            if (kc === 27) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Left Arrow
            if (kc === 37) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Right Arrow
            if (kc === 39) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Down Arrow
            if (kc === 40) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Up Arrow
            if (kc === 38) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Enter
            if (kc === 13) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Esc
            if (kc === 27) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Left Arrow
            if (kc === 37) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Right Arrow
            if (kc === 39) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Down Arrow
            if (kc === 40) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Up Arrow
            if (kc === 38) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
                return;
            }
            // Enter
            if (kc === 13) {
                this._cancelCloseTimer(); // Cancel the close timer.
                this._cancelOpenTimer(); // Cancel the open timer.
```javascript
(function (Menu) {
    /**
     * The default implementation of `IRenderer`.
     */
    var
```
Renderer = (function () {
  /** *
   * Construct a new renderer.
   *
   * @returns A virtual element representing the item.
   */
  function Renderer() {
    var dataset = this.createItemDataset(data);
    return virtualdom_1.h.li({ className: className, dataset: dataset }, this.renderIcon(data), this.renderLabel(data), this.renderShortcut(data), this.renderSubmenu(data));
  }

  Renderer.prototype.renderIcon = function (data) {
    var className = this.createItemClass(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemIcon' });
  }

  Renderer.prototype.renderShortcut = function (data) {
    var content = this.formatShortcut(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemShortcut' }, content);
  }

  Renderer.prototype.renderLabel = function (data) {
    var className = this.createItemClass(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemLabel' }, this.renderIcon(data), this.renderLabel(data), this.renderShortcut(data), this.renderSubmenu(data));
  }

  Renderer.prototype.renderSubmenu = function (data) {
    var content = this.formatSubmenu(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemSubmenuIcon' });
  }

  Renderer.prototype.createShortcut = function (data) {
    var content = this.formatShortcut(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemShortcut' }, content);
  }

  Renderer.prototype.createItemDataset = function (data) {
    var result = this.createItem(data);
    return result;
  }

  Renderer.prototype.createItemClass = function (data) {
    var className = this.createItemClass(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemIcon' });
  }

  Renderer.prototype.createItem = function (data) {
    var dataset = this.createItemDataset(data);
    return virtualdom_1.h.li({ className: data.item.className, dataset: dataset }, this.renderIcon(data), this.renderLabel(data), this.renderShortcut(data), this.renderSubmenu(data));
  }

  Renderer.prototype.formatSubmenu = function (data) {
    var content = this.formatSubmenu(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemSubmenuIcon' });
  }

  Renderer.prototype.formatShortcut = function (data) {
    var content = this.formatShortcut(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemShortcut' }, content);
  }

  Renderer.prototype.formatLabel = function (data) {
    var prefix = label.slice(0, mnemonic);
    var suffix = label.slice(mnemonic + 1);
    var char = label[mnemonic];

    var result = label;
    if (mnemonic >= label.length) {
      return label;
    }

    var _a = data.item, label = _a.label, mnemonic = _a.mnemonic;
    if (index is out of range, do not modify the label).
    if (mnemonic < 0 || mnemonic >= label.length) {
      return label;
    }

    var prefix = label.slice(0, mnemonic);
    var suffix = label.slice(mnemonic + 1);
    var char = label[mnemonic];

    var result = label;
  }

  Renderer.prototype.createItemDataset = function (data) {
    var result = this.createItem(data);
    return result;
  }

  Renderer.prototype.createItem = function (data) {
    var dataset = this.createItemDataset(data);
    return virtualdom_1.h.li({ className: data.item.className, dataset: dataset }, this.renderIcon(data), this.renderLabel(data), this.renderShortcut(data), this.renderSubmenu(data));
  }

  Renderer.prototype.formatSubmenu = function (data) {
    var content = this.formatSubmenu(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemSubmenuIcon' });
  }

  Renderer.prototype.formatShortcut = function (data) {
    var content = this.formatShortcut(data);
    return virtualdom_1.h.div({ className: 'p-Menu-itemShortcut' }, content);
  }

  Renderer.prototype.formatLabel = function (data) {
    var prefix = label.slice(0, mnemonic);
    var suffix = label.slice(mnemonic + 1);
    var char = label[mnemonic];

    var result = label;
    if (mnemonic >= label.length) {
      return label;
    }

    var _a = data.item, label = _a.label, mnemonic = _a.mnemonic;
    if (index is out of range, do not modify the label).
    if (mnemonic < 0 || mnemonic >= label.length) {
      return label;
    }

    var prefix = label.slice(0, mnemonic);
    var suffix = label.slice(mnemonic + 1);
    var char = label[mnemonic];

    var result = label;
var maxHeight = ch - (forceY ? y : 0);
// Fetch common variables.
var node = menu.node;
var style = node.style;
// Clear the menu geometry and prepare it for measuring.
style.top = "";
style.left = "";
style.width = "";
style.height = "";
style.visibility = "hidden";
style.maxHeight = maxHeight + "px";
// Attach the menu to the document.
widget_1.Widget.attach(menu, document.body);
// Measure the size of the menu.
var _a = node.getBoundingClientRect(), width = _a.width, height = _a.height;
// Adjust the X position of the menu to fit on-screen.
if (!forceX && (x + width > px + cw)) {
    x = px + cw - width;
}

// Adjust the Y position of the menu to fit on-screen.
if (!forceY && (y + height > py + ch)) {
    y = py + ch - height;
}

// Update the position of the menu to the computed position.
style.top = Math.max(0, y) + "px";
style.left = Math.max(0, x) + "px";
// Finally, make the menu visible on the screen.
style.visibility = "";
}

// Setup the result variables.
var index = -1;
var auto = -1;
var multiple = false;
// Clear the menu geometry and prepare it for measuring.
style.top = "";
style.left = "";
style.width = "";
style.height = "";
style.visibility = "hidden";
style.maxHeight = maxHeight + "px";
// Attach the menu to the document.
widget_1.Widget.attach(submenu, document.body);
// Measure the size of the menu.
var _a = node.getBoundingClientRect(), width = _a.width, height = _a.height;
// Compute the maximum allowed height for the menu.
var maxHeight = ch - (forceY ? y : 0);
// Fetch common variables.
var node = submenu.node;
var style = node.style;
// Clear the menu geometry and prepare it for measuring.
style.top = "";
style.left = "";
style.width = "";
style.height = "";
style.visibility = "hidden";
style.maxHeight = maxHeight + "px";
// Attach the menu to the document.
widget_1.Widget.attach(submenu, document.body);
// Measure the size of the menu.
var _a = node.getBoundingClientRect(), width = _a.width, height = _a.height;
// Compute the box sizing for the menu.
var box = domutils_1.ElementExt.boxSizing(submenu.node);
// Get the bounding rect for the target item node.
var itemRect = itemNode.getBoundingClientRect();
// Compute the target position.
var x = itemRect.right - Private.SUBMENU_OVERLAP;
// Adjust the X position to fit on the screen.
if (x + width > px + cw) {
    x = itemRect.left + Private.SUBMENU_OVERLAP - width;
}

// Compute the target Y position.
var y = itemRect.top - box.borderTop - box.paddingTop;
// Adjust the Y position to fit on the screen.
if (y + height > py + ch) {
    y = itemRect.bottom + box.borderBottom + box.paddingBottom - height;
}
// Update the position of the menu to the computed position.
style.top = Math.max(0, y) + "px";
style.left = Math.max(0, x) + "px";
// Finally, make the menu visible on the screen.
style.visibility = "";
Private.openSubmenu = openSubmenu;
}

// Find the best matching mnemonic item.
*function mnemonic(printable, key) {

    // Normalize the key to upper case.
    var key = key.toUpperCase();
    // Search the items from the given start index.
    var items = node.getItems();
    var length = items.length;
    for (var i = 0; i < length; ++i) {
        // Compute the wrapped index.
        var k = (i + start) % n;
        // Lookup the item
        var item = items[k];
        // Ignore items which cannot be activated.
        if (!item.canActivate()) {
            continue;
        }
        // Ignore items with an empty label.
        var label = item.getLabel();
        if (label.length === 0) {
            continue;
        }
        // Lookup the mnemonic index for the label.
        var mn = item.getMnemonic();
        // Handle a valid mnemonic index.
        if (mn >= 0 && mn < label.length) {
            if (label[mn].toUpperCase() === upperKey) {
                item.mnemonic = mnemonic;
                if (index === -1) {
                    index = k;
                } else {
                    multiple = true;
                }
            }
        }
    }
    // Finally, handle the auto index if possible.
    if (auto === -1 && label[0].toUpperCase() === upperKey) {
        auto = k;
    }
    // Return the search results.
    return { index: index, multiple: multiple, auto: auto }
}

// A concrete implementation of 'Menu.Item'.
*/ var MenuItem =
* The display label for the menu item.

```javascript
            get: function () {
                return this._commands.label(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(MenuItem.prototype, "isToggled", {
            /**
             * Whether the menu item is toggled.
             */
            get: function () {
                return this._commands.isToggled(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(MenuItem.prototype, "isEnabled", {
            /**
             * Whether the menu item is enabled.
             */
            get: function () {
                return this._commands.isEnabled(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(MenuItem.prototype, "dataset", {
            /**
             * The dataset for the menu item.
             */
            get: function () {
                return this._commands.dataset(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(MenuItem.prototype, "icon", {
            /**
             * The icon for the menu item.
             */
            get: function () {
                return this._commands.icon(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(MenuItem.prototype, "iconClass", {
            /**
             * The icon class for the menu item.
             */
            get: function () {
                return this._commands.iconClass(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(MenuItem.prototype, "iconLabel", {
            /**
             * The icon label for the menu item.
             */
            get: function () {
                return this._commands.iconLabel(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(MenuItem.prototype, "mnemonic", {
            /**
             * The mnemonic index for the menu item.
             */
            get: function () {
                return this._commands.mnemonic(this.command, this.args);
            },
            enumerable: true,
            configurable: true
        });
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this._commands.mnemonic(this.command, this.args);
} else {
    return this.submenu.title.mnemonic;
}
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this.submenu.title.label;
} else {
    return this._commands.label(this.command, this.args);
}
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this.submenu.title.caption;
} else {
    return this._commands.caption(this.command, this.args);
}
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this.submenu.title.iconLabel;
} else {
    return this._commands.iconLabel(this.command, this.args);
}
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this.submenu.title.iconClass;
} else {
    return this._commands.iconClass(this.command, this.args);
}
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this.submenu.title.mnemonic;
} else {
    return this._commands.mnemonic(this.command, this.args);
}
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this.submenu.title.label;
} else {
    return this._commands.label(this.command, this.args);
}
```

```javascript
if (this.type === 'submenu' && this.submenu) {
    return this.submenu.title.caption;
} else {
    return this._commands.caption(this.command, this.args);
}
```
Create an iterator over all widgets in the layout.

```javascript
DockLayout.prototype.dispose = function () {
    // Get an iterator over the widgets contained in the old layout root.
    var widgets = this.iter();
    // Dispose of the layout items.
    this._items.forEach(function (item) { item.dispose(); });
    // Clear the layout state before disposing the widgets.
    this.widgets = null;
}

/**
 * Construct a new dock layout.
 *
 * @param options - The options for initializing the layout.
 * @returns A new dock layout.
 */
DockLayout.prototype = new DockLayout(Private || (Private = {}));

DockLayout = function (options) {
    var this_ = this;
    this._root = null;
    this._items.clear();
    // Dispose of the base class.
    _super.prototype.dispose.call(this);
}
```
DockLayout.prototype.iter = function () {
    return this._root ? this._root.iterAllWidgets() : algorithm_1.empty();
}

DockLayout.prototype.widgets = function () {
    return this._root ? this._root.iterWidgets() : algorithm_1.empty();
}

DockLayout.prototype.selectedWidgets = function () {
    return this._root ? this._root.iterSelectedWidgets() : algorithm_1.empty();
}

DockLayout.prototype.tabBars = function () {
    return this._root ? this._root.iterTabBars() : algorithm_1.empty();
}

DockLayout.prototype.handles = function () {
    return this._root ? this._root.iterHandles() : algorithm_1.empty();
}

DockLayout.prototype.tabBars();

DockLayout.prototype.selectedWidgets();

DockLayout.prototype.widgets();

DockLayout.prototype.saveLayout = function () {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.restoreLayout = function (config) {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.moveHandle = function (handle, offsetX, offsetY) {
    return;
}

DockLayout.prototype.handles = function () {
    return this._root ? this._root.iterHandles() : algorithm_1.empty();
}

DockLayout.prototype.tabBars = function () {
    return this._root ? this._root.iterTabBars() : algorithm_1.empty();
}

DockLayout.prototype.selectedWidgets = function () {
    return this._root ? this._root.iterSelectedWidgets() : algorithm_1.empty();
}

DockLayout.prototype.widgets = function () {
    return this._root ? this._root.iterWidgets() : algorithm_1.empty();
}

DockLayout.prototype.saveLayout = function () {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.restoreLayout = function (config) {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.moveHandle = function (handle, offsetX, offsetY) {
    return;
}

DockLayout.prototype.handles = function () {
    return this._root ? this._root.iterHandles() : algorithm_1.empty();
}

DockLayout.prototype.tabBars = function () {
    return this._root ? this._root.iterTabBars() : algorithm_1.empty();
}

DockLayout.prototype.selectedWidgets = function () {
    return this._root ? this._root.iterSelectedWidgets() : algorithm_1.empty();
}

DockLayout.prototype.widgets = function () {
    return this._root ? this._root.iterWidgets() : algorithm_1.empty();
}

DockLayout.prototype.saveLayout = function () {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.restoreLayout = function (config) {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.moveHandle = function (handle, offsetX, offsetY) {
    return;
}

DockLayout.prototype.handles = function () {
    return this._root ? this._root.iterHandles() : algorithm_1.empty();
}

DockLayout.prototype.tabBars = function () {
    return this._root ? this._root.iterTabBars() : algorithm_1.empty();
}

DockLayout.prototype.selectedWidgets = function () {
    return this._root ? this._root.iterSelectedWidgets() : algorithm_1.empty();
}

DockLayout.prototype.widgets = function () {
    return this._root ? this._root.iterWidgets() : algorithm_1.empty();
}

DockLayout.prototype.saveLayout = function () {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.restoreLayout = function (config) {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.moveHandle = function (handle, offsetX, offsetY) {
    return;
}

DockLayout.prototype.handles = function () {
    return this._root ? this._root.iterHandles() : algorithm_1.empty();
}

DockLayout.prototype.tabBars = function () {
    return this._root ? this._root.iterTabBars() : algorithm_1.empty();
}

DockLayout.prototype.selectedWidgets = function () {
    return this._root ? this._root.iterSelectedWidgets() : algorithm_1.empty();
}

DockLayout.prototype.widgets = function () {
    return this._root ? this._root.iterWidgets() : algorithm_1.empty();
}

DockLayout.prototype.saveLayout = function () {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.restoreLayout = function (config) {
    return {
        main: this._root.createConfig()
    };
}

DockLayout.prototype.moveHandle = function (handle, offsetX, offsetY) {
    return;
}

DockLayout.prototype.handles = function () {
    return this._root ? this._root.iterHandles() : algorithm_1.empty();
}

DockLayout.prototype.tabBars = function () {
    return this._root ? this._root.iterTabBars() : algorithm_1.empty();
}

DockLayout.prototype.selectedWidgets = function () {
    return this._root ? this._root.iterSelectedWidgets() : algorithm_1.empty();
}

DockLayout.prototype.widgets = function () {
    return this._root ? this._root.iterWidgets() : algorithm_1.empty();
}
DockLayout.prototype.removeWidget = function (widget) {
    // Remove the widget from its current layout.
    widget.parent = this.parent;
    // Insert the widget according to the
    switch (mode) {
        case 'tab-after':
            this._insertTab(widget, ref, refNode, false);
            break;
        case 'split-bottom':
            this._insertSplit(widget, ref, refNode, 'vertical', false);
            break;
        case 'split-top':
            this._insertSplit(widget, ref, refNode, 'vertical', false);
            break;
        case 'split-left':
            this._insertSplit(widget, ref, refNode, 'horizontal', false);
            break;
        case 'split-right':
            this._insertSplit(widget, ref, refNode, 'horizontal', true);
            break;
        default:
            throw new Error('Unknown split mode: ' + mode);
    }
}

DockLayout.prototype.addWidget = function (widget) {
    if (options === void 0) { options = {}; }
    // Parse the options.
    var ref = options.ref || null;
    var mode = options.mode || 'tab-after';
    // Find the tab node which holds the reference widget.
    var refNode = null;
    if (this._root && ref) {
        refNode = this._root.findTabNode(ref);
    }
    // Throw an error if the reference widget is invalid.
    if (ref && (!refNode) {
        throw new Error('Reference widget is not in the layout.');
    }
    // Reparent the widget to the current layout parent.
    widget.parent = this.parent;
    // Insert the widget according to the
    switch (mode) {
        case 'tab-after':
            this._insertTab(widget, ref, refNode, false);
            break;
        case 'split-bottom':
            this._insertSplit(widget, ref, refNode, 'vertical', false);
            break;
        case 'split-top':
            this._insertSplit(widget, ref, refNode, 'vertical', false);
            break;
        case 'split-left':
            this._insertSplit(widget, ref, refNode, 'horizontal', false);
            break;
        case 'split-right':
            this._insertSplit(widget, ref, refNode, 'horizontal', true);
            break;
        default:
            throw new Error('Unknown split mode: ' + mode);
    }
}

DockLayout.prototype.removeWidget = function (widget) {
    // Remove the widget from its current layout.
    if (this._root && ref) {
        this._root.removeTabNode(ref);
    }
    // Do nothing else if there is no parent widget.
    if (!this.parent) {
        return;
    }
    // Ensure the widget is attached to the parent widget.
    this.attachWidget(widget);
    // Post a fit request to the parent.
    this.parent.fit();
}
Compute the right and bottom edges of the tab area.

```
var borderWidth = this._box.borderLeft + this._box.borderRight;
var borderHeight = this._box.borderTop + this._box.borderBottom;
var right = rect.width - borderWidth - (left + width);
var bottom = rect.height - borderHeight - (top + height);
```

Return the hit test results.

```
// Post a fit request for the parent widget.
DockLayout.prototype.fit = function () {
    this.parent.fit();
    // Attach the widget to the layout parent widget.
    DockLayout.prototype.attachWidget = function (widget) {
        // Do nothing if the widget is already attached.
        if (this.parent.node === widget.node.parentNode) {
            return;
        }
        // Create the layout item for the widget.
        this._items.set(widget, new layout_1.LayoutItem(widget));
        // Send a "before-attach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.BeforeAttach);
        }
        // Add the widget's node to the parent.
        this.parent.node.appendChild(widget.node);
        // Send an "after-attach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.AfterAttach);
        }
        // Detach the widget from the parent.
        var *param widget - The widget to detach from the parent.
        // Do nothing if the widget is not attached.
        if (this.parent.node === widget.node.parentNode) {
            return;
        }
        // Send a "before-detach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.BeforeDetach);
        }
        // Remove the widget's node from the parent.
        this.parent.node.removeChild(widget.node);
        // Send an "after-detach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.AfterDetach);
        }
    };
```

The tabNode.tabBar, top = tabNode.top, left = tabNode.left, width = tabNode.width, height = tabNode.height;

```
Compute the right and bottom edges of the tab area.

```
var borderWidth = this._box.borderLeft + this._box.borderRight;
var borderHeight = this._box.borderTop + this._box.borderBottom;
var right = rect.width - borderWidth - (left + width);
var bottom = rect.height - borderHeight - (top + height);
```

Return the hit test results.

```
// Post a fit request for the parent widget.
DockLayout.prototype.fit = function () {
    this.parent.fit();
    // Attach the widget to the layout parent widget.
    DockLayout.prototype.attachWidget = function (widget) {
        // Do nothing if the widget is already attached.
        if (this.parent.node === widget.node.parentNode) {
            return;
        }
        // Create the layout item for the widget.
        this._items.set(widget, new layout_1.LayoutItem(widget));
        // Send a "before-attach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.BeforeAttach);
        }
        // Add the widget's node to the parent.
        this.parent.node.appendChild(widget.node);
        // Send an "after-attach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.AfterAttach);
        }
        // Detach the widget from the parent.
        var *param widget - The widget to detach from the parent.
        // Do nothing if the widget is not attached.
        if (this.parent.node === widget.node.parentNode) {
            return;
        }
        // Send a "before-detach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.BeforeDetach);
        }
        // Remove the widget's node from the parent.
        this.parent.node.removeChild(widget.node);
        // Send an "after-detach" message if the parent is attached.
        if (this.parent.isAttached) {
            messaging_1.MessageLoop.sendMessage(widget,
                widget_1.Widget.Msg.AfterDetach);
        }
    };
```

The tabNode.tabBar, top = tabNode.top, left = tabNode.left, width = tabNode.width, height = tabNode.height;

```
// Compute the right and bottom edges of the tab area.

```
Bail early if there is no layout root.

```javascript
if (!this._root) {
    return;
}
// Find the tab node which contains the given widget.
var tabNode = this._root.findTabNode(widget);
// Bail early if the tab node is not found.
if (!tabNode) {
    return;
}
// If there are multiple tabs, just remove the widget's tab.
if (tabNode.tabBar.titles.length > 1) {
    tabNode.tabBar.removeTab(widget.title);
    return;
}
// Otherwise, the tab node needs to be removed...

// Dispose the tab bar.
tabNode.tabBar.dispose();
// Handle the case where the tab node is the root.
if (this._root === tabNode) {
    this._root = null;
    return;
}
// Otherwise, remove the tab node from its parent...
// Prevent widget resizing unless needed.
this._root.holdAllSizes();
// Clear the parent reference on the tab node.
var splitNode = tabNode.parent;
tabNode.parent = null;
// Remove the tab node from its parent split node.
var i = algorithm_1.ArrayExt.removeFirstOf(splitNode.children, tabNode);
var handle = algorithm_1.ArrayExt.removeAt(splitNode.handles, i);
algorithm_1.ArrayExt.removeAt(splitNode.sizers, i);
// Remove the handle from its parent DOM node.
if (handle.parentNode) {
    handle.parentNode.removeChild(handle);
}
// If there are multiple children, just update the
handles.
if (splitNode.children.length > 1) {
    splitNode.syncHandles();
    return;
}
// Otherwise, the node also needs to be removed...
// Clear the parent reference on the split node.
var maybeParent = splitNode.parent;
splitNode.parent = null;
// Lookup the remaining child node and handle.
var childNode = splitNode.children[0];
var childHandle = splitNode.handles[0];
// Clear the split node data.
splitNode.children.length = 0;
splitNode.handles.length = 0;
splitNode.sizers.length = 0;
// Remove the child handle from its parent node.
childNode.parent = null;
// Remove the child node.
childNode.children.length = 0;
childNode.handles.length = 0;
childNode.sizers.length = 0;
childNode.parent = null;
// Clear the handle.
childHandle.dispose();
algorithm_1.ArrayExt.insert(childNode.children, i, handle);
algorithm_1.ArrayExt.insert(childNode.handles, i, handle);
algorithm_1.ArrayExt.insert(childNode.sizers, i, handle);
childNode.parent = parentNode;
childNode.children.length = 0;
childNode.handles.length = 0;
childNode.sizers.length = 0;
childNode.parent = null;
// Sync the handles on the parent node.
parentNode.syncHandles();
// Insert a widget next to an existing tab.
// This does not attach the widget to the parent widget.
DockLayout.prototype._insertTab = function (widget, ref, refNode, after) {
    // Do nothing if the tab is inserted next to itself.
    if (widget === ref) {
        return;
    }
    // Create the root if it does not exist.
    if (!this._root) {
        this._root = new Private.TabLayoutNode(this._createTabBar());
    }
    // Bail early if there are multiple tabs, just remove the widget's tab.
    if (this._root && this._root.tabBar.titles.length > 1) {
        this._root.tabBar.removeTab(widget.title);
        return;
    }
    // Otherwise, the tab node needs to be removed...
    // Dispose the tab bar.
    this._root.tabBar.dispose();
    // Handle the case where the tab node is the root.
    if (this._root === this._root) {
        this._root = null;
        return;
    }
    // Otherwise, remove the tab node from its parent...
    // Prevent widget resizing unless needed.
    this._root.holdAllSizes();
    // Clear the parent reference on the tab node.
    var splitNode = this._root;
    this._root = null;
    return;
}
```

```javascript
DockLayout.prototype._insertTab = function (widget, ref, refNode, after) {
    // Do nothing if the tab is inserted next to itself.
    if (widget === ref) {
        return;
    }
    // Create the root if it does not exist.
    if (!this._root) {
        this._root = new Private.TabLayoutNode(this._createTabBar());
    }
    // Bail early if there are multiple tabs, just remove the widget's tab.
    if (this._root && this._root.tabBar.titles.length > 1) {
        this._root.tabBar.removeTab(widget.title);
        return;
    }
    // Otherwise, the tab node needs to be removed...
    // Dispose the tab bar.
    this._root.tabBar.dispose();
    // Handle the case where the tab node is the root.
    if (this._root === this._root) {
        this._root = null;
        return;
    }
    // Otherwise, remove the tab node from its parent...
    // Prevent widget resizing unless needed.
    this._root.holdAllSizes();
    // Clear the parent reference on the tab node.
    var splitNode = this._root;
    this._root = null;
    return;
}
```

```javascript
DockLayout.prototype._insertTab = function (widget, ref, refNode, after) {
    // Do nothing if the tab is inserted next to itself.
    if (widget === ref) {
        return;
    }
    // Create the root if it does not exist.
    if (!this._root) {
        this._root = new Private.TabLayoutNode(this._createTabBar());
    }
    // Bail early if there are multiple tabs, just remove the widget's tab.
    if (this._root && this._root.tabBar.titles.length > 1) {
        this._root.tabBar.removeTab(widget.title);
        return;
    }
    // Otherwise, the tab node needs to be removed...
    // Dispose the tab bar.
    this._root.tabBar.dispose();
    // Handle the case where the tab node is the root.
    if (this._root === this._root) {
        this._root = null;
        return;
    }
    // Otherwise, remove the tab node from its parent...
    // Prevent widget resizing unless needed.
    this._root.holdAllSizes();
    // Clear the parent reference on the tab node.
    var splitNode = this._root;
    this._root = null;
    return;
}
```

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DockLayout.prototype._insertTab = function (widget, ref, refNode, after) {
    // Do nothing if the tab is inserted next to itself.
    if (widget === ref) {
        return;
    }
    // Create the root if it does not exist.
    if (!this._root) {
        this._root = new Private.TabLayoutNode(this._createTabBar());
    }
    // Bail early if there are multiple tabs, just remove the widget's tab.
    if (this._root && this._root.tabBar.titles.length > 1) {
        this._root.tabBar.removeTab(widget.title);
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    // Otherwise, the tab node needs to be removed...
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    this._root.tabBar.dispose();
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    if (this._root === this._root) {
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DockLayout.prototype._insertTab = function (widget, ref, refNode, after) {
    // Do nothing if the tab is inserted next to itself.
    if (widget === ref) {
        return;
    }
    // Create the root if it does not exist.
    if (!this._root) {
        this._root = new Private.TabLayoutNode(this._createTabBar());
    }
    // Bail early if there are multiple tabs, just remove the widget's tab.
    if (this._root && this._root.tabBar.titles.length > 1) {
        this._root.tabBar.removeTab(widget.title);
        return;
    }
    // Otherwise, the tab node needs to be removed...
    // Dispose the tab bar.
    this._root.tabBar.dispose();
    // Handle the case where the tab node is the root.
    if (this._root === this._root) {
        this._root = null;
        return;
    }
    // Otherwise, remove the tab node from its parent...
    // Prevent widget resizing unless needed.
    this._root.holdAllSizes();
    // Clear the parent reference on the tab node.
    var splitNode = this._root;
    this._root = null;
    return;
}
```
DockLayout.prototype._insertSplit = function (widget, ref, refNode, orientation, after) {
    // Do nothing if there is no effective split.
    if (ref === widget) {
        return;
    }
    // Ensure the widget is removed from the current layout.
    this._removeWidget(widget);
    // Create the tab layout node to hold the widget.
    tabNode = new Private.TabLayoutNode(this._createTabBar());
    tabNode.tabBar.addTab(widget.title);
    // Set the root
    this._root = tabNode;
    return;
}

DockLayout.prototype._splitRoot = function (orientation) {
    // Bail early if the root already meets the requirements.
    if (this._root) {
        var oldRoot = this._root;
        // Add the old root.
        this._root = new Private.SplitLayoutNode(orientation);
        // Add the old root.
        this._root = oldRoot;
        return;
    }
    // Create a new root node with the specified orientation.
    var newRoot = this._root = new Private.SplitLayoutNode(orientation);
    // Add the old root to the new root.
    if (oldRoot) {
        newRoot.children.push(oldRoot);
    }
    // Add the tab node.
    var tabNode = new Private.TabLayoutNode(this._createTabBar());
    tabNode.tabBar.addTab(widget.title);
    // Set the root.
    this._root = tabNode;
    return;
}

DockLayout.prototype._removeSplit = function (widget, ref, refNode) {
    // Ensure the widget is removed from the current layout.
    this._removeWidget(widget);
    // Create the tab layout node to hold the widget.
    var tabNode = new Private.TabLayoutNode(this._createTabBar());
    tabNode.tabBar.addTab(widget.title);
    // Set the root
    this._root = tabNode;
    return;
}
newRoot.sizers.push(Private.createSizer());
oldRoot.parent = newRoot;
oldRoot.handle = this._createHandle();

DockLayout.prototype._update = function () {
    // Clear the dirty flag to indicate the update occurred.
    this._dirty = false;
    // Bail early if there is no root layout node.
    if (!this._root) return;

    // Measure the parent if the offset dimensions are unknown.
    if (offsetWidth < 0) {
        offsetWidth = this.parent.node.offsetWidth;
    }
    if (offsetHeight < 0) {
        offsetHeight = this.parent.node.offsetHeight;
    }

    // Ensure the parent box sizing data is computed.
    if (!this._box) {
        this._box = domutils_1.ElementExt.boxSizing(this.parent.node);
    }

    // Update the parent's min size constraints.
    var style = this.parent.node.style;
    style.minWidth = minW + "px";
    style.minHeight = minH + "px";
    // Set the dirty flag to ensure only a single update occurs.
    if (this._dirty) {
        // Notify the ancestor that it should fit immediately.
        this.parent.sendMessage(this._message);
    }

    // Compute the actual layout bounds adjusted for border and padding.
    var x = this._box.paddingTop;
    var y = this._box.paddingLeft;
    var width = offsetWidth -
    this._box.horizontalSum;
    var height = offsetHeight - this._box.verticalSum;

    // Update the parent's min size constraints.
    var style = this.parent.node.style;
    style.minWidth = minW + "px";
    style.minHeight = minH + "px";

    // Update the geometry of the layout tree.
    this._root.update(x, y, width, height, this._spacing, this._items);

    // Compute the actual layout bounds adjusted for border and padding.
    var x =
    this._box.paddingTop;
    var y = this._box.paddingLeft;
    var width = offsetWidth -
    this._box.horizontalSum;
    var height = offsetHeight - this._box.verticalSum;

    // Update the parent's min size constraints.
    var style = this.parent.node.style;
    style.minWidth = minW + "px";
    style.minHeight = minH + "px";

    // Update the actual layout bounds adjusted for border and padding.
    var x =
    this._box.paddingTop;
    var y = this._box.paddingLeft;
    var width = offsetWidth -
    this._box.horizontalSum;
    var height = offsetHeight - this._box.verticalSum;

    // Update the parent's min size constraints.
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    var height = offsetHeight - this._box.verticalSum;

    // Update the parent's min size constraints.
    var style = this.parent.node.style;
    style.minWidth = minW + "px";
    style.minHeight = minH + "px";

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    var x =
    this._box.paddingTop;
    var y = this._box.paddingLeft;
    var width = offsetWidth -
    this._box.horizontalSum;
    var height = offsetHeight - this._box.verticalSum;

    // Update the parent's min size constraints.
    var style = this.parent.node.style;
    style.minWidth = minW + "px";
    style.minHeight = minH + "px";

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    var height = offsetHeight - this._box.verticalSum;

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    this._box.horizontalSum;
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    this._box.paddingTop;
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    var width = offsetWidth -
    this._box.horizontalSum;
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    this._box.paddingTop;
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    this._box.horizontalSum;
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    var style = this.parent.node.style;
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    this._box.paddingTop;
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    this._box.horizontalSum;
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    var style = this.parent.node.style;
    style.minWidth = minW + "px";
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    var x =
    this._box.paddingTop;
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    this._box.horizontalSum;
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    this._box.paddingTop;
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    var width = offsetWidth -
    this._box.horizontalSum;
    var height = offsetHeight - this._box.verticalSum;

    // Update the parent's min size constraints.
    var style = this.parent.node.style;
    style.minWidth = minW + "px";
    style.minHeight = minH + "px";

    // Compute the actual layout bounds adjusted for border and padding.
Object.defineProperty(TabLayoutNode.prototype, "width", {
            enumerable: true,
            configurable: true
        });

Object.defineProperty(TabLayoutNode.prototype, "top", {
            enumerable: true,
            configurable: true
        });

Object.defineProperty(TabLayoutNode.prototype, "left", {
            enumerable: true,
            configurable: true
        });

Object.defineProperty(TabLayoutNode.prototype, "height", {
            enumerable: true,
            configurable: true
        });

* The most recent value for the `height` of the layout box.
```javascript
get: function () {
    return this._height;
}
```
this.tabBar.currentTitle; var widgetItem = current ? items.get(current.owner) : undefined;
    // Lookup the tab bar layout item.
    var tabBarItem = items.get(this.tabBar); // Lookup the widget layout item.
    var current = this.tabBar.currentTitle; var widgetItem = current ? items.get(current.owner) : undefined;
    widgetSizer = a[1]; // Update the tab bar limits.
    if (tabBarItem) {
        tabBarSizer.minSize = tabBarItem.minHeight; // return the computed size limits for the layout node.
        return { minWidth: minWidth, minHeight: minHeight, maxWidth: maxWidth, maxHeight: maxHeight };
    }
    // Update the results and sizer for the current widget.
    if (widgetItem && !widgetItem.isHidden) {
        minWidth += widgetItem.minWidth; minHeight += widgetItem.minHeight; widgetSizer.minSize = widgetItem.minHeight; widgetSizer.maxSize = widgetItem.maxHeight; widgetItem.fit();
    }
    // Update the results and sizer for the tab bar.
    if (tabBarItem && !tabBarItem.isHidden) {
        minHeight += tabBarItem.minHeight; tabBarSizer.minSize = tabBarItem.minHeight; tabBarSizer.maxSize = tabBarItem.maxHeight; } else {
            tabBarSizer.minSize = 0; tabBarSizer.maxSize = 0; }
    }
    // Update the layout box values.
    this._top = top; this._left = left; this._width = width; this._height = height; // Look up the tab bar layout item.
    var tabBarItem = items.get(this.tabBar); // Lookup the widget layout item.
    var current = this.tabBar.currentTitle; var widgetItem = current ? items.get(current.owner) : undefined; // Calculate the layout space to the sizers.
    boxengine_1.BoxEngine.calc(this.sizers, height); // Update the tab bar item using the computed size.
    if (tabBarItem && !tabBarItem.isHidden) {
        var size = this.sizers[0].size; var tabBarItem.update(left, top, width, size);
    }
    // Layout the widget using the computed size.
    if (widgetItem && !widgetItem.isHidden) {
        var size = this.sizers[1].size; widgetItem.update(left, top, width, size);
    }
    // return TabLayoutNode.prototype.holdAllSizes = function () {
    var a = this.sizers; var tabBarSizer = a[0], tabBarSizer = a[1]; // Update the tab bar limits.
    if (tabBarItem) {
        tabBarSizer.minSize = tabBarItem.minHeight; tabBarSizer.maxSize = tabBarItem.maxHeight; }
    // Update the results and sizer for the current widget.
    if (widgetItem && !widgetItem.isHidden) {
        tabBarSizer.minSize = tabBarItem.minHeight; tabBarSizer.maxSize = tabBarItem.maxHeight; tabBarItem.fit();
    }
    // Update the results and sizer for the tab bar.
    if (tabBarItem && !tabBarItem.isHidden) {
        tabBarSizer.minSize = tabBarItem.minHeight; tabBarSizer.maxSize = tabBarItem.maxHeight; tabBarItem.fit();
    }
    // Construct a new split layout node.
    var splitLayoutNode = new SplitLayoutNode(orientation); // The orientation of the node.
    var parent = this.parent; var this.sizers = [];
    this.normalized = false; // The child nodes for the split node.
    this.children = [];
    // The box sizers for the layout children.
    *@
    this.sizers = [];
    *@
    this.handles = [];
    *@
    this.orientation = orientation; // Create an iterator for all widgets in the layout tree.
    var childWidgets = algorithm_1.ChainIterator(children); // Create an iterator for the user widgets in the layout tree.
    var userWidgets = algorithm_1.ChainIterator(children); // Create an iterator for the selected widgets in the layout tree.

children = algorithm_1.map(this.children, function (child) { return child.iterSelectedWidgets(); });\r\n
return
new algorithm_1.ChainIterator(children);\r\n
};\r\n
/**\r\n
* Create an iterator for the tab bars in the
layout tree.\r\n
*/\r\n
SplitLayoutNode.prototype.iterTabBars = function () {\r\n
var children =
algorithm_1.map(this.children, function (child) { return child.iterTabBars(); });\r\n
return new
algorithm_1.ChainIterator(children);\r\n
};\r\n
/**\r\n
* Create an iterator for the handles in the layout
tree.\r\n
*/\r\n
SplitLayoutNode.prototype.iterHandles = function () {\r\n
var children =
algorithm_1.map(this.children, function (child) { return child.iterHandles(); });\r\n
return
algorithm_1.chain(this.handles, new algorithm_1.ChainIterator(children));\r\n
};\r\n
/**\r\n
* Find the
tab layout node which contains the given widget.\r\n
*/\r\n
SplitLayoutNode.prototype.findTabNode =
function (widget) {\r\n
for (var i = 0, n = this.children.length; i < n; ++i) {\r\n
var result =
this.children[i].findTabNode(widget);\r\n
if (result) {\r\n
return result;\r\n
}\r\n
}\r\n
return null;\r\n
};\r\n
/**\r\n
* Find the split layout node which contains the given
handle.\r\n
*/\r\n
SplitLayoutNode.prototype.findSplitNode = function (handle) {\r\n
var index =
this.handles.indexOf(handle);\r\n
if (index !== -1) {\r\n
return { index: index, node: this };\r\n
}\r\n
for (var i = 0, n = this.children.length; i < n; ++i) {\r\n
var result =
this.children[i].findSplitNode(handle);\r\n
if (result) {\r\n
return result;\r\n
}\r\n
}\r\n
return null;\r\n
};\r\n
/**\r\n
* Find the first tab layout node in a layout tree.\r\n
*/\r\n
SplitLayoutNode.prototype.findFirstTabNode = function () {\r\n
if (this.children.length === 0) {\r\n
return null;\r\n
}\r\n
return this.children[0].findFirstTabNode();\r\n
};\r\n
/**\r\n
*
Find the tab layout node which contains the local point.\r\n
*/\r\n
SplitLayoutNode.prototype.hitTestTabNodes = function (x, y) {\r\n
for (var i = 0, n = this.children.length; i <
n; ++i) {\r\n
var result = this.children[i].hitTestTabNodes(x, y);\r\n
if (result) {\r\n
return result;\r\n
}\r\n
}\r\n
return null;\r\n
};\r\n
/**\r\n
* Create a
configuration object for the layout tree.\r\n
*/\r\n
SplitLayoutNode.prototype.createConfig = function ()
{\r\n
var orientation = this.orientation;\r\n
var sizes = this.createNormalizedSizes();\r\n
var
children = this.children.map(function (child) { return child.createConfig(); });\r\n
return { type: 'split-area',
orientation: orientation, children: children, sizes: sizes };\r\n
};\r\n
/**\r\n
* Sync the visibility and
orientation of the handles.\r\n
*/\r\n
SplitLayoutNode.prototype.syncHandles = function () {\r\n
var
_this = this;\r\n
algorithm_1.each(this.handles, function (handle, i) {\r\n
handle.setAttribute('dataorientation', _this.orientation);\r\n
if (i === _this.handles.length - 1) {\r\n
handle.classList.add('p-mod-hidden');\r\n
}\r\n
else {\r\n
handle.classList.remove('pmod-hidden');\r\n
}\r\n
});\r\n
};\r\n
/**\r\n
* Hold the current sizes of the box
sizers.\r\n
*\r\n
* This sets the size hint of each sizer to its current size.\r\n
*/\r\n
SplitLayoutNode.prototype.holdSizes = function () {\r\n
algorithm_1.each(this.sizers, function (sizer) {
sizer.sizeHint = sizer.size; });\r\n
};\r\n
/**\r\n
* Recursively hold all of the sizes in the layout tree.\r\n
*\r\n
* This ignores the sizers of tab layout nodes.\r\n
*/\r\n
SplitLayoutNode.prototype.holdAllSizes = function () {\r\n
algorithm_1.each(this.children, function (child) {
return child.holdAllSizes(); });\r\n
this.holdSizes();\r\n
};\r\n
/**\r\n
* Normalize the sizes of
the split layout node.\r\n
*/\r\n
SplitLayoutNode.prototype.normalizeSizes = function () {\r\n
// Bail
early if the sizers are empty.\r\n
var n = this.sizers.length;\r\n
if (n === 0) {\r\n
return;\r\n
}\r\n
// Hold the current sizes of the sizers.\r\n
this.holdSizes();\r\n
// Compute the sum of the
sizes.\r\n
var sum = algorithm_1.reduce(this.sizers, function (v, sizer) { return v + sizer.sizeHint; }, 0);\r\n
// Normalize the sizes based on the sum.\r\n
if (sum === 0) {\r\n
algorithm_1.each(this.sizers,
function (sizer) {\r\n
sizer.size = sizer.sizeHint = 1 / n;\r\n
});\r\n
}\r\n
else {\r\n
algorithm_1.each(this.sizers, function (sizer) {\r\n
sizer.size = sizer.sizeHint /= sum;\r\n
});\r\n
}\r\n
// Mark the sizes as normalized.\r\n
this.normalized = true;\r\n
};\r\n
/**\r\n
* Snap the normalized sizes of the split layout node.\r\n
*/\r\n
SplitLayoutNode.prototype.createNormalizedSizes = function () {\r\n
// Bail early if the sizers are empty.\r\n

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var n = this.sizers.length;  
if (n === 0) { 
} else { 
    // Grab the current sizes of the sizers.
    var sizes = this.sizers.map(function (sizer) { return sizer.size; });

    // Compute the sum of the sizes.
    var sum = algorithm_1.reduce(sizes, function (v, size) { return v + size; }, 0);

    // Normalize the sizes based on the sum.
    if (sum === 0) { 
        algorithm_1.each(sizes, function (size, i) { sizes[i] = 1 / n; });
    } else { 
        algorithm_1.each(sizes, function (size, i) { sizes[i] = size / sum; });
    }

    // Return the normalized sizes.
    return sizes;
}

/** *
 * Split the layout tree.
 */
SplitLayoutNode.prototype.split = function (spacious, items) { 
    // Compute the required fixed space.
    var horizontal = this.orientation === 'horizontal';
    var fixed = Math.max(0, this.children.length - 1) * spacing;

    // Set up the limit variables.
    var minWidth = horizontal ? fixed : 0;
    var minHeight = horizontal ? 0 : fixed;
    var maxWidth = Infinity;
    var maxHeight = Infinity;

    // Fit the children and update the limits.
    for (var i = 0, n = this.children.length; i < n; ++i) { 
        child = this.children[i];
        limits = child.fit(spacing, items);
        if (horizontal) { 
            minWidth += limits.minWidth;
            minHeight = Math.max(minHeight, limits.minHeight);
            maxWidth = Math.max(maxWidth, limits.maxWidth);
        } else { 
            minHeight += limits.minHeight;
            maxWidth = Math.max(maxWidth, limits.maxWidth);
            minWidth = Math.max(minWidth, limits.minWidth);
        }
        // Return the computed limits for the layout node.
        return { minWidth: minWidth, minHeight: minHeight, maxWidth: maxWidth, maxHeight: maxHeight }; 
    }

    // Distribute the layout space to the sizers.
    boxengine_1.BoxEngine.calc(this.sizers, space);

    // Update the geometry of the child nodes and handles.
    for (var i = 0, n = this.children.length; i < n; ++i) { 
        child = this.children[i];
        var handleStyle = child.handleStyle;
        if (horizontal) { 
            handleStyle.width = spacing + px;
        } else { 
            handleStyle.height = spacing + px;
        }
    }

    // Fit the layout tree.
    SplitLayoutNode.prototype.fit = function (spacious, items) { 
    // Compute the available layout space.
    var horizontal = this.orientation === 'horizontal';
    var fixed = Math.max(0, this.children.length - 1) * spacing;

    // De-normalize the sizes if needed.
    if (this.normalized) { 
        var limits = this.children[i].fit(spacing, items);
        if (horizontal) { 
            minHeight = limits.minHeight;
            maxWidth = Math.max(maxWidth, limits.maxWidth);
        } else { 
            minHeight = limits.minHeight;
            maxWidth = Math.max(maxWidth, limits.maxWidth);
        }
    }

    // Normalize the sizes based on the sum.
    if (sum === 0) { 
        algorithm_1.each(sizes, function (size, i) { sizes[i] = 1 / n; });
    } else { 
        algorithm_1.each(sizes, function (size, i) { sizes[i] = 1 / n; });
    }

    // Return the normalized sizes.
    return sizes;
}

/** *
 * Update the layout tree.
 */
SplitLayoutNode.prototype.update = function (left, top, width, height, spacing, items) { 
    // Compute the available layout space.
    var horizontal = this.orientation === 'horizontal';
    var fixed = Math.max(0, this.children.length - 1) * spacing;

    // De-normalize the sizes if needed.
    if (this.normalized) { 
        var limits = this.children[i].fit(spacing, items);
        if (horizontal) { 
            minHeight = limits.minHeight;
            maxWidth = Math.max(maxWidth, limits.maxWidth);
        } else { 
            minHeight = limits.minHeight;
            maxWidth = Math.max(maxWidth, limits.maxWidth);
        }
    }

    // Normalize the sizes based on the sum.
    if (sum === 0) { 
        algorithm_1.each(sizes, function (size, i) { sizes[i] = 1 / n; });
    } else { 
        algorithm_1.each(sizes, function (size, i) { sizes[i] = 1 / n; });
    }

    // Return the normalized sizes.
    return sizes;
}

/** *
 * Filter the config for unique widgets.
 */
algorithm_1.each(function (config, widgetSet) { 
    // Bail early if there is no content.
    if (config.widgets.length === 0) { 
        return null;
    }

    // Setup the filtered widgets array.
    var widgets = [];

    // Filter the config for unique widgets.
    algorithm_1.each(config.widgets, function (widget) { 
        // Bail if there are no effective widgets.
        if (widgets.length === 0) { 
            return null;
        }

        // Normalize the current index.
        var index = config.currentIndex;

        // Set up the result variables.
        var orientation = config.orientation;
        var children = [];

        // Normalize the config.
        for (var i = 0, n = config.children.length; i < n; ++i) { 
            // Normalize the child.
        }
    });

    // Bail if there are no effective widgets.
    if (widgets.length === 0) { 
        return null;
    }

    // Normalize the current index.
    var index = config.currentIndex;

    // Set up the result variables.
    var orientation = config.orientation;
    var children = [];

    // Normalize the config.
    for (var i = 0, n = config.children.length; i < n; ++i) { 
        // Normalize the child.
    }

    // Bail if there are no effective widgets.
    if (widgets.length === 0) { 
        return null;
    }

    // Normalize the current index.
    var index = config.currentIndex;
/**\r\n * Dispose of the resources held by the layout.\r\n */\r\n SplitLayout.prototype.dispose = function ()
{\r\n
// Dispose of the layout items.\r\n
algorithm_1.each(this._items, function (item) { item.dispose();
});\r\n
// Clear the layout state.\r\n
this._box = null;\r\n
this._items.length = 0;\r\n
this._sizers.length = 0;\r\n
this._handles.length = 0;\r\n
// Dispose of the rest of the layout.\r\n
_super.prototype.dispose.call(this);\r\n };\r\n Object.defineProperty(SplitLayout.prototype, \"orientation\", {\r\n
/**\r\n
* Get the layout orientation for the split layout.\r\n
*/\r\n
get: function () {\r\n
return
this._orientation;\r\n
},\r\n
/**\r\n
* Set the layout orientation for the split layout.\r\n
*/\r\n
set: function (value) {\r\n
if (this._orientation === value) {\r\n
return;\r\n
}\r\n
this._orientation = value;\r\n
if (!this.parent) {\r\n
return;\r\n
}\r\n
this.parent.dataset['orientation'] = value;\r\n
this.parent.fit();\r\n
},\r\n
enumerable: true,\r\n
configurable: true\r\n });\r\n Object.defineProperty(SplitLayout.prototype, \"alignment\", {\r\n
/**\r\n
*
Get the content alignment for the split layout.\r\n
*\r\n
* #### Notes\r\n
* This is the alignment of the
widgets in the layout direction.\r\n
*\r\n
* The alignment has no effect if the widgets can expand to fill
the\r\n
* entire split layout.\r\n
*/\r\n
get: function () {\r\n
return this._alignment;\r\n
},\r\n
/**\r\n
* Set the content alignment for the split layout.\r\n
*\r\n
* #### Notes\r\n
* This is the
alignment of the widgets in the layout direction.\r\n
*\r\n
* The alignment has no effect if the widgets can
expand to fill the\r\n
* entire split layout.\r\n
*/\r\n
set: function (value) {\r\n
if
(this._alignment === value) {\r\n
return;\r\n
}\r\n
this._alignment = value;\r\n
if
(!this.parent) {\r\n
return;\r\n
}\r\n
this.parent.dataset['alignment'] = value;\r\n
this.parent.update();\r\n
},\r\n
enumerable: true,\r\n
configurable: true\r\n });\r\n
Object.defineProperty(SplitLayout.prototype, \"spacing\", {\r\n
/**\r\n
* Get the inter-element spacing for
the split layout.\r\n
*/\r\n
get: function () {\r\n
return this._spacing;\r\n
},\r\n
/**\r\n
*
Set the inter-element spacing for the split layout.\r\n
*/\r\n
set: function (value) {\r\n
value =
Private.clampSpacing(value);\r\n
if (this._spacing === value) {\r\n
return;\r\n
}\r\n
this._spacing = value;\r\n
if (!this.parent) {\r\n
return;\r\n
}\r\n
this.parent.fit();\r\n
},\r\n
enumerable: true,\r\n
configurable: true\r\n });\r\n Object.defineProperty(SplitLayout.prototype,
\"handles\", {\r\n
/**\r\n
* A read-only array of the split handles in the layout.\r\n
*/\r\n
get:
function () {\r\n
return this._handles;\r\n
},\r\n
enumerable: true,\r\n
configurable: true\r\n
});\r\n /**\r\n * Get the relative sizes of the widgets in the layout.\r\n *\r\n * @returns A new array of the
relative sizes of the widgets.\r\n *\r\n * #### Notes\r\n * The returned sizes reflect the sizes of the widgets
normalized\r\n * relative to their siblings.\r\n *\r\n * This method **does not** measure the DOM nodes.\r\n
*/\r\n SplitLayout.prototype.relativeSizes = function () {\r\n
return
Private.normalize(this._sizers.map(function (sizer) { return sizer.size; }));\r\n };\r\n /**\r\n * Set the relative
sizes for the widgets in the layout.\r\n *\r\n * @param sizes - The relative sizes for the widgets in the panel.\r\n
*\r\n * #### Notes\r\n * Extra values are ignored, too few will yield an undefined layout.\r\n *\r\n * The
actual geometry of the DOM nodes is updated asynchronously.\r\n */\r\n SplitLayout.prototype.setRelativeSizes
= function (sizes) {\r\n
// Copy the sizes and pad with zeros as needed.\r\n
var n = this._sizers.length;\r\n
var temp = sizes.slice(0, n);\r\n
while (temp.length < n) {\r\n
temp.push(0);\r\n
}\r\n
//
Normalize the padded sizes.\r\n
var normed = Private.normalize(temp);\r\n
// Apply the normalized sizes to
the sizers.\r\n
for (var i = 0; i < n; ++i) {\r\n
var sizer = this._sizers[i];\r\n
sizer.sizeHint =
normed[i];\r\n
sizer.size = normed[i];\r\n
}\r\n
// Set the flag indicating the sizes are normalized.\r\n
this._hasNormedSizes = true;\r\n
// Trigger an update of the parent widget.\r\n
if (this.parent) {\r\n
this.parent.update();\r\n
}\r\n };\r\n /**\r\n * Move the offset position of a split handle.\r\n *\r\n *
@param index - The index of the handle of the interest.\r\n *\r\n * @param position - The desired offset
position of the handle.\r\n *\r\n * #### Notes\r\n * The position is relative to the offset parent.\r\n *\r\n
* This will move the handle as close as possible to the desired\r\n * position. The sibling widgets will be adjusted
as necessary.\r\n */\r\n SplitLayout.prototype.moveHandle = function (index, position) {\r\n
// Bail if the
index is invalid or the handle is hidden.\r\n
var handle = this._handles[index];\r\n
if (!handle ||

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handle.classList.contains('p-modal-hidden'))

return;

// Compute the desired delta movement for the handle.

var delta;

if (this._orientation === "horizontal")
    delta = position - handle.offsetTop;

else
    delta = position - handle.offsetLeft;

// Bail if there is no handle movement.

if (delta === 0)
    return;

// Prevent widget resizing unless needed.

for (var i = 0; i < this._sizers.length; i++)
    var sizer = this._sizers[i];

if (sizer.size > 0)
    sizer.sizeHint = sizer.size;

// Adjust the sizers to reflect the handle movement.

boxengine.BoxEngine.adjust(this._sizers, index, delta);

// Update the layout of the widgets.

if (this.parent)
    this.parent.update();

/*

* Perform layout initialization which requires the parent widget.

* @param index - The current index of the widget in the layout.

* @param widget - The widget to attach to the parent.

*/

SplitLayout.prototype.onBeforeShow = function (msg) {
    this.parent.fit();
}

/**

* A message invoked on a `'before-show'` message.

*/

SplitLayout.prototype.onBeforeShow = function (msg) {
    this.parent.fit();
}

/**

* A message handler widget(Msg.BeforeAttach);

 */

if (this.parent.isAttached) {
    messaging.MessageLoop.sendMessage(widget, widget.Msg.BeforeAttach);
}

// Add the widget and handle nodes to the parent.

this.parent.appendChild(widget.node);

this.parent.node.appendChild(handle);

// Send an "after-attach" message if the parent is attached.

if (this.parent.isAttached) {
    messaging.MessageLoop.sendMessage(widget, widget.Msg.AfterAttach);
}

// Create the item, handle, and sizer for the new widget.

var item = new layout.LayoutItem(widget);
var handle = Private.createHandle(this.renderer);
var average = Private.averageSize(this._sizers);
var sizer = Private.createSizer(average);

// Insert the item, handle, and sizer into the internal arrays.

algorithm.ArrayExt.insert(this._items, index, item);
algorithm.ArrayExt.insert(this._handles, index, handle);
algorithm.ArrayExt.insert(this._sizers, index, sizer);

SplitLayout.prototype.moveWidget = function (fromIndex, toIndex, widget) {
    // Move the item, sizer, and handle for the widget.

    algorithm.ArrayExt.move(this._items, fromIndex, toIndex);
    algorithm.ArrayExt.move(this._handles, fromIndex, toIndex);
    algorithm.ArrayExt.move(this._sizers, fromIndex, toIndex);

    // Post a fit request to the parent's DOM node.

    this.parent.fit();

    /*
     * @param index - The previous index of the widget in the layout.
     * @param widget - The widget to move in the parent.
     */

    SplitLayout.prototype.onBeforeShow = function (msg) {
        this.parent.dataset['orientation'] = this.orientation;
        this.parent.dataset['alignment'] = this.alignment;
    }

    /**
     * Perform layout initialization which requires the parent widget.
    
     * @param index - The current index of the widget in the layout.
     * @param widget - The widget to detach from the parent.
     */

    SplitLayout.prototype.onBeforeShow = function (msg) {
        this.parent.dataset['orientation'] = this.orientation;
        this.parent.dataset['alignment'] = this.alignment;
    }

    /**
     * Attach a widget to the parent's DOM node.
     *
     * @param index - The current index of the widget in the layout.
     * @param widget - The widget to move in the parent.
     */

    SplitLayout.prototype.detachWidget = function (index, widget) {
        // Remove the item, handle, and sizer for the widget.

        var var item = algorithm.ArrayExt.removeAt(this._items, index);
        var handle = algorithm.ArrayExt.removeAt(this._handles, index);
        var sizer = algorithm.ArrayExt.removeAt(this._sizers, index);

        // Send a "before-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.BeforeDetach);
        }

        // Remove the widget and handle nodes from the parent.

        this.parent.node.removeChild(handle);
        this.parent.node.removeChild(widget.node);

        // Send an "after-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.AfterDetach);
        }

        // Dispose of the layout item.

        item.dispose();

        // Post a fit request for the parent widget.

        this.parent.fit();

        /*
         * A message handler invoked on a "before-show" message.
         */

        SplitLayout.prototype.onBeforeShow = function (msg) {

        }

        /*
         * A message handler invoked on a "before-show" message.
         */

        SplitLayout.prototype.onBeforeShow = function (msg) {
        }

        /*
         * A message handler invoked on a "before-show" message.
         */

        SplitLayout.prototype.onBeforeShow = function (msg) {

    };

    /**
     * Attach a widget to the parent's DOM node.
     *
     * @param index - The current index of the widget in the layout.
     * @param widget - The widget to move in the parent.
     */

    SplitLayout.prototype.detachWidget = function (index, widget) {
        // Remove the item, handle, and sizer for the widget.

        var var item = algorithm.ArrayExt.removeAt(this._items, index);
        var handle = algorithm.ArrayExt.removeAt(this._handles, index);
        var sizer = algorithm.ArrayExt.removeAt(this._sizers, index);

        // Send a "before-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.BeforeDetach);
        }

        // Remove the widget and handle nodes from the parent.

        this.parent.node.removeChild(handle);
        this.parent.node.removeChild(widget.node);

        // Send an "after-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.AfterDetach);
        }

        // Dispose of the layout item.

        item.dispose();

        // Post a fit request for the parent widget.

        this.parent.fit();
    };

    /**
     * Perform layout initialization which requires the parent widget.
     */

    SplitLayout.prototype.init = function () {
        this.parent.dataset['orientation'] = this.orientation;
        this.parent.dataset['alignment'] = this.alignment;
    }

    /**
     * Attach a widget to the parent's DOM node.
     *
     * @param index - The current index of the widget in the layout.
     * @param widget - The widget to move in the parent.
     */

    SplitLayout.prototype.detachWidget = function (index, widget) {
        // Remove the item, handle, and sizer for the widget.

        var var item = algorithm.ArrayExt.removeAt(this._items, index);
        var handle = algorithm.ArrayExt.removeAt(this._handles, index);
        var sizer = algorithm.ArrayExt.removeAt(this._sizers, index);

        // Send a "before-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.BeforeDetach);
        }

        // Remove the widget and handle nodes from the parent.

        this.parent.node.removeChild(handle);
        this.parent.node.removeChild(widget.node);

        // Send an "after-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.AfterDetach);
        }

        // Dispose of the layout item.

        item.dispose();

        // Post a fit request for the parent widget.

        this.parent.fit();
    };

    /**
     * Perform layout initialization which requires the parent widget.
     */

    SplitLayout.prototype.init = function () {
        this.parent.dataset['orientation'] = this.orientation;
        this.parent.dataset['alignment'] = this.alignment;
    }

    /**
     * Perform layout initialization which requires the parent widget.
     */

    SplitLayout.prototype.init = function () {
        this.parent.dataset['orientation'] = this.orientation;
        this.parent.dataset['alignment'] = this.alignment;
    }

    /**
     * Perform layout initialization which requires the parent widget.
     */

    SplitLayout.prototype.init = function () {
        this.parent.dataset['orientation'] = this.orientation;
        this.parent.dataset['alignment'] = this.alignment;
    }

    /**
     * Attach a widget to the parent's DOM node.
     *
     * @param index - The current index of the widget in the layout.
     * @param widget - The widget to move in the parent.
     */

    SplitLayout.prototype.detachWidget = function (index, widget) {
        // Remove the item, handle, and sizer for the widget.

        var var item = algorithm.ArrayExt.removeAt(this._items, index);
        var handle = algorithm.ArrayExt.removeAt(this._handles, index);
        var sizer = algorithm.ArrayExt.removeAt(this._sizers, index);

        // Send a "before-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.BeforeDetach);
        }

        // Remove the widget and handle nodes from the parent.

        this.parent.node.removeChild(handle);
        this.parent.node.removeChild(widget.node);

        // Send an "after-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.AfterDetach);
        }

        // Dispose of the layout item.

        item.dispose();

        // Post a fit request for the parent widget.

        this.parent.fit();
    };

    /**
     * Perform layout initialization which requires the parent widget.
     */

    SplitLayout.prototype.init = function () {
        this.parent.dataset['orientation'] = this.orientation;
        this.parent.dataset['alignment'] = this.alignment;
    }

    /**
     * Attach a widget to the parent's DOM node.
     *
     * @param index - The current index of the widget in the layout.
     * @param widget - The widget to move in the parent.
     */

    SplitLayout.prototype.detachWidget = function (index, widget) {
        // Remove the item, handle, and sizer for the widget.

        var var item = algorithm.ArrayExt.removeAt(this._items, index);
        var handle = algorithm.ArrayExt.removeAt(this._handles, index);
        var sizer = algorithm.ArrayExt.removeAt(this._sizers, index);

        // Send a "before-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.BeforeDetach);
        }

        // Remove the widget and handle nodes from the parent.

        this.parent.node.removeChild(handle);
        this.parent.node.removeChild(widget.node);

        // Send an "after-detach" message if the parent is attached.

        if (this.parent.isAttached) {
            messaging.MessageLoop.sendMessage(widget, widget.Msg.AfterDetach);
        }

        // Dispose of the layout item.

        item.dispose();

        // Post a fit request for the parent widget.

        this.parent.fit();
handler invoked on a "before-attach" message. */

SplitLayout.prototype.onBeforeAttach = function (msg) {
    _super.prototype.onBeforeAttach.call(this, msg); 
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-shown" message. */

SplitLayout.prototype.onChildShown = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-hidden" message. */

SplitLayout.prototype.onChildHidden = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "resize" message. */

SplitLayout.prototype.onResize = function (msg) {
    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
    this._update(msg.width, msg.height);
}

/**
 * A message handler invoked on an "update-request" message. */

SplitLayout.prototype.onUpdateRequest = function (msg) {
    if (this.parent.isAttached) {
        this._update(msg.width, msg.height);
    }
}

/**
 * A message handler invoked on a "fit-request" message. */

SplitLayout.prototype.onFitRequest = function (msg) {
    if (this.parent.isAttached) {
        this._fit();
    }
}

/**
 * A message handler invoked on a "before-attach" message. */

SplitLayout.prototype.onBeforeAttach = function (msg) {
    _super.prototype.onBeforeAttach.call(this, msg); 
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-shown" message. */

SplitLayout.prototype.onChildShown = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-hidden" message. */

SplitLayout.prototype.onChildHidden = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "resize" message. */

SplitLayout.prototype.onResize = function (msg) {
    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
    this._update(msg.width, msg.height);
}

/**
 * A message handler invoked on an "update-request" message. */

SplitLayout.prototype.onUpdateRequest = function (msg) {
    if (this.parent.isAttached) {
        this._update(msg.width, msg.height);
    }
}

/**
 * A message handler invoked on a "fit-request" message. */

SplitLayout.prototype.onFitRequest = function (msg) {
    if (this.parent.isAttached) {
        this._fit();
    }
}

/**
 * A message handler invoked on a "before-attach" message. */

SplitLayout.prototype.onBeforeAttach = function (msg) {
    _super.prototype.onBeforeAttach.call(this, msg); 
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-shown" message. */

SplitLayout.prototype.onChildShown = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-hidden" message. */

SplitLayout.prototype.onChildHidden = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "resize" message. */

SplitLayout.prototype.onResize = function (msg) {
    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
    this._update(msg.width, msg.height);
}

/**
 * A message handler invoked on an "update-request" message. */

SplitLayout.prototype.onUpdateRequest = function (msg) {
    if (this.parent.isAttached) {
        this._update(msg.width, msg.height);
    }
}

/**
 * A message handler invoked on a "fit-request" message. */

SplitLayout.prototype.onFitRequest = function (msg) {
    if (this.parent.isAttached) {
        this._fit();
    }
}

/**
 * A message handler invoked on a "before-attach" message. */

SplitLayout.prototype.onBeforeAttach = function (msg) {
    _super.prototype.onBeforeAttach.call(this, msg); 
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-shown" message. */

SplitLayout.prototype.onChildShown = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-hidden" message. */

SplitLayout.prototype.onChildHidden = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "resize" message. */

SplitLayout.prototype.onResize = function (msg) {
    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
    this._update(msg.width, msg.height);
}

/**
 * A message handler invoked on an "update-request" message. */

SplitLayout.prototype.onUpdateRequest = function (msg) {
    if (this.parent.isAttached) {
        this._update(msg.width, msg.height);
    }
}

/**
 * A message handler invoked on a "fit-request" message. */

SplitLayout.prototype.onFitRequest = function (msg) {
    if (this.parent.isAttached) {
        this._fit();
    }
}

/**
 * A message handler invoked on a "before-attach" message. */

SplitLayout.prototype.onBeforeAttach = function (msg) {
    _super.prototype.onBeforeAttach.call(this, msg); 
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-shown" message. */

SplitLayout.prototype.onChildShown = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-hidden" message. */

SplitLayout.prototype.onChildHidden = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "resize" message. */

SplitLayout.prototype.onResize = function (msg) {
    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
    this._update(msg.width, msg.height);
}

/**
 * A message handler invoked on an "update-request" message. */

SplitLayout.prototype.onUpdateRequest = function (msg) {
    if (this.parent.isAttached) {
        this._update(msg.width, msg.height);
    }
}

/**
 * A message handler invoked on a "fit-request" message. */

SplitLayout.prototype.onFitRequest = function (msg) {
    if (this.parent.isAttached) {
        this._fit();
    }
}

/**
 * A message handler invoked on a "before-attach" message. */

SplitLayout.prototype.onBeforeAttach = function (msg) {
    _super.prototype.onBeforeAttach.call(this, msg); 
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-shown" message. */

SplitLayout.prototype.onChildShown = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "child-hidden" message. */

SplitLayout.prototype.onChildHidden = function (msg) {
    this.parent.fit();
};

/**
 * A message handler invoked on a "resize" message. */

SplitLayout.prototype.onResize = function (msg) {
    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
    this._update(msg.width, msg.height);
}

/**
 * A message handler invoked on an "update-request" message. */

SplitLayout.prototype.onUpdateRequest = function (msg) {
    if (this.parent.isAttached) {
        this._update(msg.width, msg.height);
    }
}

/**
 * A message handler invoked on a "fit-request" message. */

SplitLayout.prototype.onFitRequest = function (msg) {
    if (this.parent.isAttached) {
        this._fit();
    }
}
```javascript
/**
 * Create a new box sizer with the given size hint.
 */
function createSizer(size) {
    var sizer = new boxengine_1.BoxSizer();
    sizer.sizeHint = Math.floor(size);
    return sizer;
}

/**
 * Get the split layout stretch factor for the given widget.
 */
function getStretch(widget) {
    return Private.stretchProperty.get(widget);
}

/**
 * Create a new box sizer with the given size hint.
 */
function createSizer(size) {
    var sizer = new boxengine_1.BoxSizer();
    sizer.sizeHint = size;
    return sizer;
}

/**
 * The namespace for the `SplitLayout` class statics.
 */
(function (SplitLayout) {
    SplitLayout.prototype = {
        getStretch: function (widget) {
            return Private.stretchProperty.get(widget);
        },
        setStretch: function (widget, value) {
            Private.stretchProperty.set(widget, value);
        },
        getStretch: function (widget) {
            return Private.stretchProperty.get(widget);
        }
    };
    return SplitLayout;
}(panellayout_1.PanelLayout));
```
The widget to detach from the parent.

### Notes
This is a reimplementation of the superclass method.

- @param index - The previous index of the widget in the layout.

- @param for the parent widget.

```javascript
    this.parent.update();
```
superclass method.

StackedLayout.prototype.detachWidget = function (index, widget) {

    Remove the layout item for the widget.

    var item = algorithm_1.ArrayExt.removeAt(this._items, index);

    // Send a "before-detach" message if the parent is attached.
    if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.BeforeDetach);
    }

    // Remove the widget's node from the parent.
    this.parent.node.removeChild(widget.node);

    // Send an "after-detach" message if the parent is attached.
    if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterDetach);
    }
}

StackedLayout.prototype.onBeforeAttach = function (msg) {

    this.parent.fit();

    // A message handler invoked on a "child-hidden" message.
    if (msg) {
        _super.prototype.onBeforeAttach.call(this, msg);
        this.parent.fit();
    }

    // A message handler invoked on a "update-request" message.
    if (msg) {
        StackedLayout.prototype.onUpdateRequest = function (msg) {
            this._update(msg.width, msg.height);
        }
    }

    // A message handler invoked on a "resize" message.
    if (msg) {
        StackedLayout.prototype.onResize = function (msg) {
            this._update(msg.width, msg.height);
        }
    }

    // A message handler invoked on a "fit-request" message.
    if (msg) {
        StackedLayout.prototype.onFitRequest = function (msg) {
            this._fit();
        }
    }
}

StackedLayout.prototype.onBeforeShow = function (msg) {

    if (this.parent.isVisible) {
        this._update(-1, -1);
    }
}

StackedLayout.prototype.onBeforeShow = function (msg) {

    if (this.parent.isVisible) {
        this._update(msg.width, msg.height);
    }
}

StackedLayout.prototype.onUpdateRequest = function (msg) {

    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
}

StackedLayout.prototype.onResize = function (msg) {

    if (this.parent.isAttached) {
        this._update(msg.width, msg.height);
    }
}

StackedLayout.prototype.onFitRequest = function (msg) {

    if (this.parent.isAttached) {
        this._fit();
    }
}

StackedLayout.prototype.onDetach = function (index, widget) {

    // Remove the widget's node from the parent.
    this.parent.node.removeChild(widget.node);

    // Send an "after-detach" message if the parent is attached.
    if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterDetach);
    }

    // Reset the z-index for the widget.
    widget.widget.node.style.zIndex = "";

    // Dispose of the layout item.
    item.dispose();

    // Post a fit request for the parent widget.
    this.parent.fit();

    // A message handler invoked on a "child-hidden" message.
    if (msg) {
        this.parent.fit();
    }

    // A message handler invoked on a "update-request" message.
    if (msg) {
        StackedLayout.prototype.onUpdateRequest = function (msg) {
            this._update(msg.width, msg.height);
        }
    }

    // A message handler invoked on a "resize" message.
    if (msg) {
        StackedLayout.prototype.onResize = function (msg) {
            this._update(msg.width, msg.height);
        }
    }

    // A message handler invoked on a "fit-request" message.
    if (msg) {
        StackedLayout.prototype.onFitRequest = function (msg) {
            this._fit();
        }
    }
}

StackedLayout.prototype.onBeforeAttach = function (msg) {

    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
}

StackedLayout.prototype.onBeforeShow = function (msg) {

    if (this.parent.isVisible) {
        this._update(-1, -1);
    }
}

StackedLayout.prototype.onUpdateRequest = function (msg) {

    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
}

StackedLayout.prototype.onResize = function (msg) {

    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
}

StackedLayout.prototype.onFitRequest = function (msg) {

    if (this.parent.isAttached) {
        this._fit();
    }
}

StackedLayout.prototype.onDetach = function (index, widget) {

    // Remove the widget's node from the parent.
    this.parent.node.removeChild(widget.node);

    // Send an "after-detach" message if the parent is attached.
    if (this.parent.isAttached) {
        messaging_1.MessageLoop.sendMessage(widget, widget_1.Widget.Msg.AfterDetach);
    }

    // Reset the z-index for the widget.
    widget.widget.node.style.zIndex = "";

    // Dispose of the layout item.
    item.dispose();

    // Post a fit request for the parent widget.
    this.parent.fit();

    // A message handler invoked on a "child-hidden" message.
    if (msg) {
        this.parent.fit();
    }

    // A message handler invoked on a "update-request" message.
    if (msg) {
        StackedLayout.prototype.onUpdateRequest = function (msg) {
            this._update(msg.width, msg.height);
        }
    }

    // A message handler invoked on a "resize" message.
    if (msg) {
        StackedLayout.prototype.onResize = function (msg) {
            this._update(msg.width, msg.height);
        }
    }

    // A message handler invoked on a "fit-request" message.
    if (msg) {
        StackedLayout.prototype.onFitRequest = function (msg) {
            this._fit();
        }
    }
}

StackedLayout.prototype.onBeforeAttach = function (msg) {

    if (this.parent.isAttached) {
        this._update(-1, -1);
    }
}

StackedLayout.prototype.onBeforeShow = function (msg) {

    if (this.parent.isVisible) {
        this._update(-1, -1);
    }
}
Compute the actual layout bounds adjusted for border and padding. var top = this._box.paddingTop; var left = this._box.paddingLeft; var width = offsetWidth - this._box.horizontalSum; var height = offsetHeight - this._box.verticalSum; // Update the widget stacking order and layout geometry. for (var i = 0, n = this._items.length; i < n; ++i) {
    if (this.isHidden) { continue; }

    // Ignore hidden items.
    // Fetch the item.
    var item = this._items[i];
    // Set the z-index for the widget.
    item.widget.node.style.zIndex = "" + i;
    // Update the item geometry.
    item.update(left, top, width, height);
}

StackedLayout = StackedLayout || (panellayout_1.PanelLayout); exports.StackedLayout = StackedLayout;

//////////////////
// WEBPACK FOOTER
// module id = 135
// module chunks = 0
"use strict"; var __extends = (this && this.__extends) || (function () {
    var extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) {
            d.__proto__ = b;
        }) || function (d, b) {
            for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p];
        };
    return function (d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };
})();
Object.defineProperty(exports, "__esModule", { value: true });
/*-----
------------------------------------------------------------------------
| Copyright (c) 2014-2017, PhosphorJS
|
| Distributed under the terms of the BSD 3-Clause License.
|
| The full license is in the file LICENSE, distributed with this software.
|----------------------------------------------------------------------------*/
var signaling_1 = require("@phosphor/signaling");
var panel_1 = require("./panel");
var stackedlayout_1 = require("./stackedlayout");
/**
 * A panel where visible widgets are stacked atop one another.
 */
var StackedPanel = (function (_super) {
    __extends(StackedPanel, _super);
    /**
     * Construct a new stacked panel.
     */
    function StackedPanel(options) {
        if (options === void 0) { options = {}; }
        var _this = _super.call(this, {
            layout: Private.createLayout(options) }) || this;

        _this.addClass('p-StackedPanel');

        return _this;
    }

    StackedPanel.prototype.onChildAdded = function (msg) {
        msg.child.addClass('p-StackedPanel-child');
    };

    StackedPanel.prototype.onChildRemoved = function (msg) {
        msg.child.removeClass('p-StackedPanel-child');
        this._widgetRemoved.emit(msg.child);
    };

    return StackedPanel;
}(panel_1.Panel)); exports.StackedPanel = StackedPanel;

/**
 * The namespace for the module implementation details.
 */
var Private;
(function (Private) {
    /**
     * Create a stacked layout for the given panel options.
     */
    function createLayout(options) {
        return options.layout || new stackedlayout_1.StackedLayout();
    }
    Private.createLayout = createLayout;
})(Private || (Private = {}));

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```javascript
algorithm_1 = require('@phosphor/algorithm');
var messaging_1 = require('@phosphor/messaging');
var widgets_1 = require('@phosphor/widgets');
var _ = require('underscore');
var $ = require('jquery');
var JupyterPhosphorPanelWidget = /** @class */ (function (_super) {
    __extends(JupyterPhosphorPanelWidget, _super);
    function JupyterPhosphorPanelWidget(options) {
        var _this = this;
        var view = options.view;
        delete options.view;
        _this = _super.call(this, options) || this;
        _this._view = view;
        return _this;
    }
    /**
     * Process the phosphor message.
     * Any custom phosphor widget used inside a Jupyter widget should override this function.
     */
    JupyterPhosphorPanelWidget.prototype.processMessage = function (msg) {
        _super.prototype.processMessage.call(this, msg);
        this._view.processPhosphorMessage(msg);
    };
    /**
     * Dispose the widget.
     */
    JupyterPhosphorPanelWidget.prototype.dispose = function () {
        if (this.isDisposed) {
            return;
        }
        _super.prototype.dispose.call(this);
        if (this._view) {
            this._view.remove();
        }
        this._view = null;
    };
    return JupyterPhosphorPanelWidget;
}(widgets_1.Panel));
var BoxModel = /** @class */ (function (_super) {
    __extends(BoxModel, _super);
    function BoxModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    BoxModel.prototype.defaults = function () {
        var defaults = _super.prototype.defaults.call(this);
        defaults._view_name = 'BoxView';
        defaults._model_name = 'BoxModel';
        defaults.children = [
            { box_style: '' }
        ];
        return defaults;
    };
    return BoxModel;
}(widget_core_1.CoreDOMWidgetModel));
exports.BoxModel = BoxModel;
var HBoxModel = /** @class */ (function (_super) {
    __extends(HBoxModel, _super);
    function HBoxModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    HBoxModel.prototype.defaults = function () {
        return _super.prototype.defaults.call(this);
        return _super.prototype.defaults.call(this);
        return defaults;
    };
    return HBoxModel;
}(BoxModel));
exports.HBoxModel = HBoxModel;
var VBoxModel = /** @class */ (function (_super) {
    __extends(VBoxModel, _super);
    function VBoxModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    VBoxModel.prototype.defaults = function () {
        return _super.prototype.defaults.call(this);
        return defaults;
    };
    return VBoxModel;
}(BoxModel));
exports.VBoxModel = VBoxModel;
var BoxView = /** @class */ (function (_super) {
    __extends(BoxView, _super);
    function BoxView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    BoxView.prototype.initialize = function (parameters) {
        _super.prototype.initialize.call(this, parameters);
        this.children_views = new base_1.ViewList(this.add_child_model, null, this);
        this.listenTo(this.model, 'change:children', this.update_children);
        this.listenTo(this.model, 'change:box_style', this.update_box_style);
        this.pWidget.addClass('jupyter-widgets');
        this.pWidget.addClass('widget-container');
        this.pWidget.addClass('widget-box');
        return JupyterPhosphorPanelWidget;
    };
    return BoxView;
}(BoxView));
exports.BoxView = BoxView;
```

widget_description_1.DescriptionStyleModel.styleProperties, { handle_color: {'ui-slider-handle', attribute: 'background-color', default: null } });
return SliderStyleModel

widget_description_1.DescriptionStyleModel.prototype.defaults = function () { return _extends(SliderStyleModel.prototype.defaults, call(this), { orientation: 'horizontal', readout: true, readout_format: 'd', continuous_update: true, style: null, disabled: false }); };

IntSliderModel.prototype.defaults = function () { return _extends(IntSliderModel.prototype.defaults, call(this), { orientation: 'horizontal', readout: true, readout_format: 'd', continuous_update: true, style: null, disabled: false }); };

IntRangeSliderModel.prototype.defaults = function () { return _extends(IntRangeSliderModel.prototype.defaults, call(this), { orientation: 'horizontal', readout: true, readout_format: 'd', continuous_update: true, style: null, disabled: false }); };

BaseIntSliderView.prototype.render = function () {
    super.prototype.render.call(this);
    this.el.classList.add('jupyter-widgets');
    this.el.classList.add('widget-inline-hbox');
    this.el.classList.add('widget-slider');
    this.el.classList.add('widget-hslider');
    (this.$slider = $('<div />'))
        .slider({
            slide: this.handleSliderChange.bind(this),
            stop: this.handleSliderChanged.bind(this)
        })
        .addClass('slider');
    // Put the slider in a container
    this.slider_container = document.createElement('div');
    this.slider_container.classList.add('slider-container');
    this.slider_container.appendChild(this.$slider[0]);
    this.el.appendChild(this.slider_container);
    this.readout = document.createElement('div');
    this.el.appendChild(this.readout);
    this.readout.classList.add('widget-readout');
    this.readout.contentEditable = 'true';
    this.readout.style.display = 'none';
    // Set defaults.
    this.update();
}

BaseIntSliderView.prototype.update = function (options) {
    /**
     * Update the contents of this view
     * Called when the model is changed. The model may have been
     * changed by another view or by a state update from the back-end.
     * The horizontal position of the slider handle
     * depends on the value of the slider at the time of orientation change. Before applying the new
     * workaround, we set the value to the minimum to make sure that the horizontal placement of the
     * handle in the vertical slider is always consistent.
     */
    if (options === undefined || options.updated_view !== this) {
        // JQuery slider option keys. These keys happen to have a
        // one-to-one mapping with the corresponding
        // keys of the model.
        var jquery_slider_keys = ['step', 'disabled'];
        var that = this;
        that.$slider.slider({});
        jquery_slider_keys.forEach(function (key) {
            if (model_value !== undefined) {
                that.$slider.slider('option', key, model_value);
            }
        });
        var max = this.model.get('max');
        var min = this.model.get('min');
        if (min <= max) {
            if (max !== undefined) {
                this.$slider.slider('option', 'max', max);
            }
            if (min !== undefined) {
                this.$slider.slider('option', 'min', min);
            }
        }
        // WORKAROUND FOR JQUERY SLIDER BUG
        // The horizontal position of the slider handle
        // depends on the value of the slider at the time of orientation change. Before applying the new
        // workaround, we set the value to the minimum to make sure that the horizontal placement of the
        // handle in the vertical slider is always consistent.
        var orientation = this.model.get('orientation');
        this.$slider.slider('option', 'orientation', orientation); // Use the right
        // CSS classes for vertical & horizontal sliders
        if (orientation === 'vertical') {
            this.el.classList.remove('widget-hslider');
            this.el.classList.add('widget-vslider');
        }
    }
};
this.el.classList.remove('widget-inline-hbox');
            this.el.classList.add('widget-inline-vbox');
            }
        }
        return _super.prototype.update.call(this);
    };
    /**
     * Returns true if the readout box content overflows.
     */
    BaseIntSliderView.prototype.readout_overflow = function () {
        return this.readout.scrollWidth > this.readout.clientWidth;
    };
    BaseIntSliderView.prototype.events = function () {
        return {
            // Dictionary of events and their
            // handlers
            'slide': 'handleSliderChange',
            'slidestop': 'handleSliderChanged',
            'blur' // Dictionary of events and their
            // handlers
            [contentEditable=true]: 'handleTextChange',
            'keydown [contentEditable=true]': 'handleKeyDown'
        };
    };
    BaseIntSliderView.prototype.handleKeyDown = function (e) {
        if (e.keyCode === 13) {
            e.preventDefault();
            this.handleTextChange();
        }
    };
    /**
     * Validate the value of the slider
     * before sending it to the back-end
     * and applying it to the other views on the page.
     */
    BaseIntSliderView.prototype._validate_slide_value = function (x) {
        return Math.floor(x);
    };
    return BaseIntSliderView;
}(widget_description_1.DescriptionView));
exports.BaseIntSliderView = BaseIntSliderView;
var IntRangeSliderView = /** @class */ (function (_super) {
    __extends(IntRangeSliderView, _super);
    function IntRangeSliderView() {
        var _this = _super !== null && _super.apply(this, arguments) || this;
        // range numbers can be separated by a hyphen, colon, or an en-dash
        _this._range_regex = /^\s*([+-]?\d+)\s*[-:–]\s*([+-]?\d+)/;
        return _this;
    }
    IntRangeSliderView.prototype.update = function (options) {
        _super.prototype.update.call(this, options);
        this.$slider.slider('option', 'range', true);
        // values for the range case are validated python-side in
        // _Bounded{Int,Float}RangeWidget.prototype.readout
        var value = this.model.get('value');
        this.$slider.slider('option', 'values', value.slice());
        this.readout.textContent = this.valueToString(value);
        if (this.model.get('value') !== value) {
            this.model.set('value', value, { updated_view: this });
            this.touch();
        }
    };
    /**
     * Write value to a string
     */
    IntRangeSliderView.prototype.valueToString = function (value) {
        var format = this.model.readout_formatter;
        return value.map(function (v) {
            return format(v);
        }).join(' – ');
    };
    /**
     * Parse value from a string
     */
    IntRangeSliderView.prototype.stringToValue = function (text) {
        // ranges can be expressed either 'val-val' or 'val:val' (+spaces)
        var match = this._range_regex.exec(text);
        if (match) {
            return [this._parse_value(match[1]),
                this._parse_value(match[2])];
        }
        else {
            return null;
        }
    };
    /**
     * this handles the
     * entry of text into the contentEditable label first, the
     * value is checked if it contains a parseable value then it is
     * clamped
     * within the min-max range of the slider finally, the model is updated if
     * the value is to be
     * changed
     * any of these conditions are not met, the text is reset
     */
    IntRangeSliderView.prototype.handleTextChange = function () {
        var value = this.stringToValue(this.readout.textContent);
        var vmin = this.model.get('min');
        var vmax = this.model.get('max');
        // ranges can be expressed either 'val-val' or 'val:val' (+spaces)
        var match = this._range_regex.exec(text);
        if (match) {
            return [this._parse_value(match[1]),
                Math.max(Math.min(value[1], vmax), vmin)];
        }
        else {
            return null;
        }
    };
    IntRangeSliderView.prototype.handleSliderChange = function () {
        var actual_value
        var value = this.stringToValue(this.readout.textContent);
        var vmin = this.model.get('min');
        var vmax = this.model.get('max');
        // reject input where NaN or lower > upper
        if (value !== null) {
            if (isNaN(value[0]) || isNaN(value[1])) {
                return this.readout.textContent = this.valueToString(value);
            } else {
                // clamp to range
                value = [Math.max(Math.min(value[0], vmax), vmin),
                    Math.max(Math.min(value[1], vmax), vmin)];
                if ((value[0] !== this.model.get('value')[0]) ||
                    (value[1] !== this.model.get('value')[1])) {
                    return this.readout.textContent = this.valueToString(value);
                } else {
                    this.model.set('value', value, { updated_view: this });
                    this.touch();
                }
            }
        }
    };
    return IntRangeSliderView;
= ui.values.map(this._validate_slide_value);
  this.readout.textContent = this.valueToString(actual_value);

/**
 * Called when the slider value has changed.
 * Calling model.set will trigger all of the other views of the
 * model to update.
 */
  IntRangeSliderView.prototype.handleSliderChanged = function(e, ui) {
    var actual_value = ui.values.map(this._validate_slide_value);
    this.model.set('value', actual_value, { updated_view: this });
    return;
  }

  IntRangeSliderView.prototype.update = function(options) {
    var min = this.model.get('min');
    var max = this.model.get('max');
    var value = this.model.get('value');
    if (value > max) {
      value = max;
    } else if (value < min) {
      value = min;
    }
    this.$slider.slider('option', 'value', value);
    this.readout.textContent = this.valueToString(value);
    if (this.model.get('value') !== value) {
      this.model.set('value', value, { updated_view: this });
      this.touch();
    } else {
      this.readout.textContent = this.valueToString(this.model.get('value'));
    }
  }

  IntRangeSliderView.prototype.handleSliderChange = function(e, ui) {
    var actual_value = this._validate_slide_value(ui.value);
    this.readout.textContent = this.valueToString(actual_value);
    // Only persist the value while sliding if the continuous_update
    // trait is set to true.
    if (this.model.get('continuous_update')) {
      this.handleSliderChanged(e, ui);
    } else {
      // Persist the value while sliding if the trait is set to true,
      // and the slider is being moved.
      if (this.model.get('continuous_update')) {
        this.handleSliderChanged(e, ui);
      }
    }
  }

  IntSliderView.prototype.update = function(options) {
    var min = this.model.get('min');
    var max = this.model.get('max');
    var value = this.model.get('value');
    if (value > max) {
      value = max;
    } else if (value < min) {
      value = min;
    }
    this.$slider.slider('option', 'value', value);
    this.readout.textContent = this.valueToString(value);
    if (this.model.get('value') !== value) {
      this.model.set('value', value, { updated_view: this });
      this.touch();
    } else {
      this.readout.textContent = this.valueToString(this.model.get('value'));
    }
  }

  IntSliderView.prototype.handleSliderChange = function(e, ui) {
    var actual_value = this._validate_slide_value(ui.value);
    this.readout.textContent = this.valueToString(actual_value);
    // Only persist the value while sliding if the continuous_update
    // trait is set to true.
    if (this.model.get('continuous_update')) {
      this.handleSliderChanged(e, ui);
    } else {
      // Persist the value while sliding if the trait is set to true,
      // and the slider is being moved.
      if (this.model.get('continuous_update')) {
        this.handleSliderChanged(e, ui);
      }
    }
  }

  IntTextModel.prototype.update = function(options) {
    var min = this.model.get('min');
    var max = this.model.get('max');
    var value = this.model.get('value');
    if (value > max) {
      value = max;
    } else if (value < min) {
      value = min;
    }
    this.$slider.slider('option', 'value', value);
    this.readout.textContent = this.valueToString(value);
    if (this.model.get('value') !== value) {
      this.model.set('value', value, { updated_view: this });
      this.touch();
    } else {
      this.readout.textContent = this.valueToString(this.model.get('value'));
    }
  }

  IntTextModel.prototype.stringToValue = function(text) {
    return this._parse_value(text);
  }

  IntTextModel.prototype.handleTextChange = function() {
    var value = this.readout.textContent;
    var vmin = this.model.get('min');
    var vmax = this.model.get('max');
    if (isNaN(value)) {
      this.readout.textContent = this.valueToString(this.model.get('value'));
    } else {
      value = Math.max(Math.min(value, vmax), vmin);
      if (value !== this.model.get('value')) {
        this.readout.textContent = this.valueToString(value);
        this.model.set('value', value, { updated_view: this });
        this.touch();
      } else {
        this.readout.textContent = this.valueToString(this.model.get('value'));
      }
    }
  }

  IntTextModel.prototype.handleSliderChange = function(e, ui) {
    var actual_value = this._validate_slide_value(ui.value);
    this.readout.textContent = this.valueToString(actual_value);
    // Only persist the value while sliding if the continuous_update
    // trait is set to true.
    if (this.model.get('continuous_update')) {
      this.handleSliderChanged(e, ui);
    } else {
      // Persist the value while sliding if the trait is set to true,
      // and the slider is being moved.
      if (this.model.get('continuous_update')) {
        this.handleSliderChanged(e, ui);
      }
    }
  }

  BoundedIntTextModel.prototype.update = function(options) {
    var min = this.model.get('min');
    var max = this.model.get('max');
    var value = this.model.get('value');
    if (value > max) {
      value = max;
    } else if (value < min) {
      value = min;
    }
    this.$slider.slider('option', 'value', value);
    this.readout.textContent = this.valueToString(value);
    if (this.model.get('value') !== value) {
      this.model.set('value', value, { updated_view: this });
      this.touch();
    } else {
      this.readout.textContent = this.valueToString(this.model.get('value'));
    }
  }

  BoundedIntTextModel.prototype.stringToValue = function(text) {
    return this._parse_value(text);
  }

  BoundedIntTextModel.prototype.handleTextChange = function() {
    var value = this.readout.textContent;
    var vmin = this.model.get('min');
    var vmax = this.model.get('max');
    if (isNaN(value)) {
      this.readout.textContent = this.valueToString(this.model.get('value'));
    } else {
      value = Math.max(Math.min(value, vmax), vmin);
      if (value !== this.model.get('value')) {
        this.readout.textContent = this.valueToString(value);
        this.model.set('value', value, { updated_view: this });
        this.touch();
      } else {
        this.readout.textContent = this.valueToString(this.model.get('value'));
      }
    }
  }

  BoundedIntTextModel.prototype.handleSliderChange = function(e, ui) {
    var actual_value = this._validate_slide_value(ui.value);
    this.readout.textContent = this.valueToString(actual_value);
    // Only persist the value while sliding if the continuous_update
    // trait is set to true.
    if (this.model.get('continuous_update')) {
      this.handleSliderChanged(e, ui);
    } else {
      // Persist the value while sliding if the trait is set to true,
      // and the slider is being moved.
      if (this.model.get('continuous_update')) {
        this.handleSliderChanged(e, ui);
      }
    }
  }
BoundedIntTextView

```javascript
var IntTextView = /** @class */ (function (_super) {
    __extends(IntTextView, _super);
    function IntTextView() {
        var this = _super !== null && _super.apply(this, arguments) || this;
        this._parse_value = parseInt;
        this._default_step = '1';
        return this;
    }
    IntTextView.prototype.render = function () {
        this.el.classList.add('jupyter-widgets');
        this.el.classList.add('widget-inline-hbox');
        this.el.classList.add('widget-text');
        this.textbox = document.createElement('input');
        this.textbox.type = 'number';
        this.textbox.required = true;
        this.textbox.id = this.label.htmlFor = utils_1.uuid();
        this.el.appendChild(this.textbox);
        this.update(); // Set defaults.
    };
    IntTextView.prototype.update = function (options) {
        if (options === undefined || options.updated_view !== this) {
            var value = this.model.get('value');
            if (this._parse_value(this.textbox.value) !== value) {
                this.textbox.value = value.toString();
            }
            if (this.model.get('min') !== undefined) {
                this.textbox.min = this.model.get('min');
            }
            if (this.model.get('max') !== undefined) {
                this.textbox.max = this.model.get('max');
            }
            if (this.model.get('step') !== undefined
                && this.model.get('step') !== null) {
                this.textbox.step = this.model.get('step');
            }
            else {
                this.textbox.step = this._default_step;
            }
            this.textbox.disabled = this.model.get('disabled');
        }
        return _super.prototype.update.call(this);
    };
    IntTextView.prototype.events = function () {
        return {
            'keydown input': 'handleKeyDown',
            'keypress input': 'handleKeypress',
            'input input': 'handleChanging',
            'change input': 'handleChanged'
        };
    };
    IntTextView.prototype.handleKeyDown = function (e) {
        e.stopPropagation();
    };
    IntTextView.prototype.handleKeypress = function (e) {
        e.stopPropagation();
    };
    IntTextView.prototype.handleChanging = function (e) {
        var trimmed = e.target.value.trim();
        if (trimmed === '' || ('-', '.', '+', '+').indexOf(trimmed) >= 0) {
            // incomplete number
            return;
        }
        if (this.model.get('continuous_update')) {
            this.handleChanged(e);
        }
    };
    IntTextView.prototype.handleChanged = function (e) {
        var numericalValue = this._parse_value(e.target.value);
        if (isNaN(numericalValue)) {
            e.target.value = this.model.get('value');
        }
        else {
            // Handle both the unbounded and bounded case by checking to see if the max/min properties are defined
            var boundedValue = numericalValue;
            if (this.model.get('max') !== undefined) {
                boundedValue = Math.min(this.model.get('max'), boundedValue);
            }
            if (this.model.get('min') !== undefined) {
                boundedValue = Math.max(this.model.get('min'), boundedValue);
            }
            if (boundedValue !== numericalValue) {
                e.target.value = boundedValue;
                numericalValue = boundedValue;
            }
            // Apply the value if it has changed.
            if (numericalValue !== this.model.get('value')) {
                this.model.set('value', numericalValue, { updated_view: this });
                this.touch();
            }
        }
    };
    return IntTextView;
}(widget_description_1.DescriptionView));
exports.IntTextView = IntTextView;
```

ProgressStyleModel

```javascript
var ProgressStyleModel = /** @class */ (function (_super) {
    __extends(ProgressStyleModel, _super);
    function ProgressStyleModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ProgressStyleModel.prototype.defaults = function () {
        return __assign({}, _super.prototype.defaults.call(this),
            { _model_name: 'ProgressStyleModel' });
    };
    ProgressStyleModel.styleProperties = __assign({},
        widget_description_1.DescriptionStyleModel.styleProperties,
            { bar_color: { selector: '.progress-bar', attribute: 'background-color', default: null } });
    return ProgressStyleModel;
}(widget_description_1.DescriptionView));
```
PlayModel.prototype.play = function () {
    this.set('_playing', true);
    if (this.get('value') == this.get('min')) {
        this.schedule_next();
    }
    else {
        if (this.get('_repeat')) {
            this.set('value', this.get('step'));
        }
        else {
            this.set('_playing', false);
            this.set('value', this.get('min'));
            this.save_changes();
        }
    }
}
PlayModel.prototype.pause = function () {
    this.set('_playing', false);
    this.save_changes();
}
PlayModel.prototype.stop = function () {
    window.setTimeout(this.loop.bind(this), this.get('interval'));
}
PlayModel.prototype.schedule_next = function () {
    var next_value = this.get('value') + this.get('step');
    if (next_value <= this.get('max')) {
        this.set('value', next_value);
        this.schedule_next();
    }
    else {
        this.set('_playing', false);
        this.set('value', this.get('min'));
        this.save_changes();
    }
}
PlayModel.prototype.loop = function () {
    if (this.get('_playing')) {
        var next_value = this.get('value') + this.get('step');
    }
    else {
        this.set('_playing', false);
        this.set('value', this.get('min'));
        this.save_changes();
    }
}
PlayModel.prototype.model = this.get('model');
PlayModel.prototype.initialize = function (parameters) {
    super.prototype.initialize.call(this, parameters);
    this.listenTo(this.model, 'change:bar_style', this.update_bar_style); // Set defaults.
    this.set_bar_style();
}
PlayModel.prototype.defaults = function () {
    return super !== null && super.apply(this, arguments) || this;
}
PlayModel.prototype.model = this.get('model');
PlayModel.prototype.initialize = function (parameters) {
    super.prototype.initialize.call(this, parameters);
    this.listenTo(this.model, 'change:bar_style', this.update_bar_style); // Set defaults.
    this.set_bar_style();
}
PlayModel.prototype.defaults = function () {
    return super !== null && super.apply(this, arguments) || this;
}
PlayModel.prototype.model = this.get('model');
PlayModel.prototype.initialize = function (parameters) {
    super.prototype.initialize.call(this, parameters);
    this.listenTo(this.model, 'change:bar_style', this.update_bar_style); // Set defaults.
    this.set_bar_style();
}
PlayModel.prototype.defaults = function () {
    return super !== null && super.apply(this, arguments) || this;
}
this.get('min'));\n
this.schedule_next();\n
this.save_changes();\n
}\n
else {\n
//
otherwise directly start with the next value\n
// loop will call save_changes in this case\n
this.loop();\n
}\n };\n PlayModel.prototype.repeat = function () {\n
this.set('_repeat', !this.get('_repeat'));\n
this.save_changes();\n };\n return PlayModel;\n}(BoundedIntModel));\nexports.PlayModel = PlayModel;\nvar
PlayView = /** @class */ (function (_super) {\n __extends(PlayView, _super);\n function PlayView() {\n
return _super !== null && _super.apply(this, arguments) || this;\n }\n PlayView.prototype.render = function ()
{\n
_super.prototype.render.call(this);\n
this.el.classList.add('jupyter-widgets');\n
this.el.classList.add('widget-inline-hbox');\n
this.el.classList.add('widget-play');\n
this.playButton =
document.createElement('button');\n
this.pauseButton = document.createElement('button');\n
this.stopButton = document.createElement('button');\n
this.repeatButton = document.createElement('button');\n
this.playButton.className = 'jupyter-button';\n
this.pauseButton.className = 'jupyter-button';\n
this.stopButton.className = 'jupyter-button';\n
this.repeatButton.className = 'jupyter-button';\n
this.el.appendChild(this.playButton); // Toggle button with playing\n
this.el.appendChild(this.pauseButton); //
Disable if not playing\n
this.el.appendChild(this.stopButton); // Disable if not playing\n
this.el.appendChild(this.repeatButton); // Always enabled, but may be hidden\n
var playIcon =
document.createElement('i');\n
playIcon.className = 'fa fa-play';\n
this.playButton.appendChild(playIcon);\n
var pauseIcon = document.createElement('i');\n
pauseIcon.className = 'fa fa-pause';\n
this.pauseButton.appendChild(pauseIcon);\n
var stopIcon =
document.createElement('i');\n
stopIcon.className = 'fa fa-stop';\n
this.stopButton.appendChild(stopIcon);\n
var repeatIcon = document.createElement('i');\n
repeatIcon.className = 'fa fa-retweet';\n
this.repeatButton.appendChild(repeatIcon);\n
this.playButton.onclick = this.model.play.bind(this.model);\n
this.pauseButton.onclick =
this.model.pause.bind(this.model);\n
this.stopButton.onclick = this.model.stop.bind(this.model);\n
this.repeatButton.onclick = this.model.repeat.bind(this.model);\n
this.listenTo(this.model, 'change:_playing',
this.update_playing);\n
this.listenTo(this.model, 'change:_repeat', this.update_repeat);\n
this.listenTo(this.model, 'change:show_repeat', this.update_repeat);\n
this.update_playing();\n
this.update_repeat();\n
this.update();\n };\n PlayView.prototype.update = function () {\n
var disabled =
this.model.get('disabled');\n
this.playButton.disabled = disabled;\n
this.pauseButton.disabled = disabled;\n
this.stopButton.disabled = disabled;\n
this.repeatButton.disabled = disabled;\n
this.update_playing();\n
};\n PlayView.prototype.update_playing = function () {\n
var playing = this.model.get('_playing');\n
var
disabled = this.model.get('disabled');\n
if (playing) {\n
if (!disabled) {\n
this.pauseButton.disabled = false;\n
}\n
this.playButton.classList.add('mod-active');\n
}\n
else
{\n
if (!disabled) {\n
this.pauseButton.disabled = true;\n
}\n
this.playButton.classList.remove('mod-active');\n
}\n };\n PlayView.prototype.update_repeat = function ()
{\n
var repeat = this.model.get('_repeat');\n
this.repeatButton.style.display = this.model.get('show_repeat') ?
this.playButton.style.display : 'none';\n
if (repeat) {\n
this.repeatButton.classList.add('mod-active');\n
}\n
else {\n
this.repeatButton.classList.remove('mod-active');\n
}\n };\n return
PlayView;\n}(base_1.DOMWidgetView));\nexports.PlayView = PlayView;\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ../packages/controls/lib/widget_int.js\n// module id = 138\n// module chunks = 0","(function (global,
factory) {\n typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports) :\n typeof define ===
'function' && define.amd ? define(['exports'], factory) :\n (factory((global.d3_format = {})));\n}(this, function
(exports) { 'use strict';\n\n // Computes the decimal coefficient and exponent of the specified number x with\n //
significant digits p, where x is positive and p is in [1, 21] or undefined.\n // For example, formatDecimal(1.23)
returns [\"123\", 0].\n function formatDecimal(x, p) {\n if ((i = (x = p ? x.toExponential(p - 1) :
x.toExponential()).indexOf(\"e\")) < 0) return null; // NaN, ±Infinity\n var i, coefficient = x.slice(0, i);\n\n // The
string returned by toExponential either has the form \\d\\.\\d+e[-+]\\d+\n // (e.g., 1.2e+3) or the form \\de[-+]\\d+
(e.g., 1e+3).\n return [\n
coefficient.length > 1 ? coefficient[0] + coefficient.slice(2) : coefficient,\n +x.slice(i
+ 1)\n ];\n }\n\n function exponent(x) {\n return x = formatDecimal(Math.abs(x)), x ? x[1] : NaN;\n }\n\n

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function formatGroup(grouping, thousands) {\n return function(value, width) {\n
var i = value.length,\n
t
= [],\n
j = 0,\n
g = grouping[0],\n
length = 0;\n\n
while (i > 0 && g > 0) {\n
if (length + g +
1 > width) g = Math.max(1, width - length);\n
t.push(value.substring(i -= g, i + g));\n
if ((length += g + 1) >
width) break;\n
g = grouping[j = (j + 1) % grouping.length];\n
}\n\n
return t.reverse().join(thousands);\n
};\n }\n\n function formatDefault(x, p) {\n x = x.toPrecision(p);\n\n out: for (var n = x.length, i = 1, i0 = -1, i1;
i < n; ++i) {\n
switch (x[i]) {\n
case \".\": i0 = i1 = i; break;\n
case \"0\": if (i0 === 0) i0 = i; i1 = i;
break;\n
case \"e\": break out;\n
default: if (i0 > 0) i0 = 0; break;\n
}\n }\n\n return i0 > 0 ? x.slice(0,
i0) + x.slice(i1 + 1) : x;\n }\n\n var prefixExponent;\n\n function formatPrefixAuto(x, p) {\n var d =
formatDecimal(x, p);\n if (!d) return x + \"\";\n var coefficient = d[0],\n
exponent = d[1],\n
i = exponent
- (prefixExponent = Math.max(-8, Math.min(8, Math.floor(exponent / 3))) * 3) + 1,\n
n = coefficient.length;\n
return i === n ? coefficient\n
: i > n ? coefficient + new Array(i - n + 1).join(\"0\")\n
:i>0?
coefficient.slice(0, i) + \".\" + coefficient.slice(i)\n
: \"0.\" + new Array(1 - i).join(\"0\") + formatDecimal(x,
Math.max(0, p + i - 1))[0]; // less than 1y!\n }\n\n function formatRounded(x, p) {\n var d = formatDecimal(x,
p);\n if (!d) return x + \"\";\n var coefficient = d[0],\n
exponent = d[1];\n return exponent < 0 ? \"0.\" +
new Array(-exponent).join(\"0\") + coefficient\n
: coefficient.length > exponent + 1 ? coefficient.slice(0,
exponent + 1) + \".\" + coefficient.slice(exponent + 1)\n
: coefficient + new Array(exponent - coefficient.length
+ 2).join(\"0\");\n }\n\n var formatTypes = {\n \"\": formatDefault,\n \"%\": function(x, p) { return (x *
100).toFixed(p); },\n \"b\": function(x) { return Math.round(x).toString(2); },\n \"c\": function(x) { return x +
\"\"; },\n \"d\": function(x) { return Math.round(x).toString(10); },\n \"e\": function(x, p) { return
x.toExponential(p); },\n \"f\": function(x, p) { return x.toFixed(p); },\n \"g\": function(x, p) { return
x.toPrecision(p); },\n \"o\": function(x) { return Math.round(x).toString(8); },\n \"p\": function(x, p) { return
formatRounded(x * 100, p); },\n \"r\": formatRounded,\n \"s\": formatPrefixAuto,\n \"X\": function(x) { return
Math.round(x).toString(16).toUpperCase(); },\n \"x\": function(x) { return Math.round(x).toString(16); }\n };\n\n
// [[fill]align][sign][symbol][0][width][,][.precision][type]\n var re = /^(?:(.)?([<>=^]))?([+\\-\\(
])?([$#])?(0)?(\\d+)?(,)?(\\.\\d+)?([a-z%])?$/i;\n\n function formatSpecifier(specifier) {\n return new
FormatSpecifier(specifier);\n }\n\n function FormatSpecifier(specifier) {\n if (!(match = re.exec(specifier)))
throw new Error(\"invalid format: \" + specifier);\n\n var match,\n
fill = match[1] || \" \",\n
align =
match[2] || \">\",\n
sign = match[3] || \"-\",\n
symbol = match[4] || \"\",\n
zero = !!match[5],\n
width
= match[6] && +match[6],\n
comma = !!match[7],\n
precision = match[8] && +match[8].slice(1),\n
type = match[9] || \"\";\n\n // The \"n\" type is an alias for \",g\".\n if (type === \"n\") comma = true, type =
\"g\";\n\n // Map invalid types to the default format.\n else if (!formatTypes[type]) type = \"\";\n\n // If zero fill
is specified, padding goes after sign and before digits.\n if (zero || (fill === \"0\" && align === \"=\")) zero = true,
fill = \"0\", align = \"=\";\n\n this.fill = fill;\n this.align = align;\n this.sign = sign;\n this.symbol = symbol;\n
this.zero = zero;\n this.width = width;\n this.comma = comma;\n this.precision = precision;\n this.type =
type;\n }\n\n FormatSpecifier.prototype.toString = function() {\n return this.fill\n
+ this.align\n
+
this.sign\n
+ this.symbol\n
+ (this.zero ? \"0\" : \"\")\n
+ (this.width == null ? \"\" : Math.max(1,
this.width | 0))\n
+ (this.comma ? \",\" : \"\")\n
+ (this.precision == null ? \"\" : \".\" + Math.max(0,
this.precision | 0))\n
+ this.type;\n };\n\n var prefixes =
[\"y\",\"z\",\"a\",\"f\",\"p\",\"n\",\"µ\",\"m\",\"\",\"k\",\"M\",\"G\",\"T\",\"P\",\"E\",\"Z\",\"Y\"];\n\n function
identity(x) {\n return x;\n }\n\n function locale(locale) {\n var group = locale.grouping && locale.thousands ?
formatGroup(locale.grouping, locale.thousands) : identity,\n
currency = locale.currency,\n
decimal =
locale.decimal;\n\n function newFormat(specifier) {\n
specifier = formatSpecifier(specifier);\n\n
var fill =
specifier.fill,\n
align = specifier.align,\n
sign = specifier.sign,\n
symbol = specifier.symbol,\n
zero = specifier.zero,\n
width = specifier.width,\n
comma = specifier.comma,\n
precision =
specifier.precision,\n
type = specifier.type;\n\n
// Compute the prefix and suffix.\n
// For SI-prefix, the
suffix is lazily computed.\n
var prefix = symbol === \"$\" ? currency[0] : symbol === \"#\" &&
/[boxX]/.test(type) ? \"0\" + type.toLowerCase() : \"\",\n
suffix = symbol === \"$\" ? currency[1] :
/[%p]/.test(type) ? \"%\" : \"\";\n\n
// What format function should we use?\n
// Is this an integer type?\n
//

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locale({
    decimal: ",",
    thousands: ".",
    grouping: [3],
    currency: ["€", ""]
  });

var jaJP = locale({
    decimal: ".",
    thousands: ",",
    grouping: [3],
    currency: ["", ""]
  });

var koKR = locale({
    decimal: ".",
    thousands: ",",
    grouping: [3],
    currency: ["", ""]
  });

var mkMK = locale({
    decimal: ",",
    thousands: ".",
    grouping: [3],
    currency: ["", "\xa0."]
  });

var nlNL = locale({
    decimal: ",",
    thousands: ".",
    grouping: [3],
    currency: ["€\xa0", ""]
  });

var plPL = locale({
    decimal: ",",
    thousands: ".",
    grouping: [3],
    currency: ["", "z"]
  });

var ptBR = locale({
    decimal: ",",
    thousands: ".",
    grouping: [3],
    currency: ["R$", ""]
  });

var ruRU = locale({
    decimal: ",",
    thousands: "\xa0",
    grouping: [3],
    currency: ["", "\xa0."]
  });

var svSE = locale({
    decimal: ",",
    thousands: "\xa0",
    grouping: [3],
    currency: ["", "SEK"]
  });

var zhCN = locale({
    decimal: ".",
    thousands: ",",
    grouping: [3],
    currency: ["¥", ""]
  });

function precisionFixed(step) {
    return Math.max(0, -exponent(Math.abs(step)));}

function precisionPrefix(step, value) {
    return Math.max(0, Math.max(-8, Math.min(8, exponent(value) / 3))) * 3 - exponent(Math.abs(step)) + 1;}

function precisionRound(step, max) {
    step = Math.abs(step), max = Math.abs(max) - step;
    return Math.max(0, exponent(max) - exponent(step)) + 1;}

var format = defaultLocale.format;
var formatPrefix = defaultLocale.formatPrefix;

var version = "0.5.1";
exports.version = version;
exports.format = format;
exports.formatPrefix = formatPrefix;
exports.formatLocale = locale;
exports.formatCaEs = caES;
exports.formatCsCz = csCZ;
exports.formatDeCh = deCH;
exports.formatDeDe = deDE;
exports.formatEnCa = enCA;
exports.formatEnGb = enGB;
exports.formatEnUs = defaultLocale;
exports.formatEsEs = esES;
exports.formatFiFi = fiFI;
exports.formatFrCa = frCA;
exports.formatFrFr = frFR;
exports.formatHl = hl;
exports.formatHuHu = huHU;
exports.formatItIt = itIT;
exports.formatJpJp = jaJP;
exports.formatKoKr = koKR;
exports.formatMkMk = mkMK;
exports.formatNlNl = nlNL;
exports.formatPpPp = plPL;
exports.formatPtBr = ptBR;
exports.formatRuRu = ruRU;
exports.formatSvSe = svSE;
exports.formatZhCn = zhCN;
exports.formatSpecifier = formatSpecifier;
exports.precisionFixed = precisionFixed;
exports.precisionPrefix = precisionPrefix;
exports.precisionRound = precisionRound;

var widgetUuid = 0;
var widgetSlice = Array.prototype.slice;

$.cleanData = ( function( orig ) {
    return function( elems ) {
        var events, elem,
        i;
        for ( i = 0; ( elem = elems[ i ] ) != null; i++ ) {
            try {

                // Only trigger remove when necessary to
                events = $._data( elem, "events" );
                if ( events && events.remove ) {
                    $( elem ).triggerHandler( "remove" );
                }

                // Http://bugs.jquery.com/ticket/8235
            } catch ( e ) {
            }
        }
        orig( elems );
    };}
}( $.cleanData ));

$.widget = function( name, base, prototype ) {
    var existingConstructor, constructor, basePrototype, $; = $;
    var name = "$.Widget";
    var namespace = name.spli...
We don't use _addClass() here, because that uses this.options.classes

elements = $( currentElements.get() );
this._removeClass( currentElements, classKey );

// elements being tracked. We need to save a copy of this collection so that we can add the new classes
||
					!currentElements.length ) {
				continue;
			}

// We are doing this to create a new jQuery
value = this.classesElementLookup[ classKey ];

for ( classKey in value ) {
currentElements = this.classesElementLookup[ classKey ];

return this;
}

_setOptionClasses: function( value ) {
var classKey, elements,

this.options[ key ] = value;

if ( key === "disabled" ) {
this._setOption( key, value );

this.options[ key ] = $.widget.extend( {}, this.options[ key ] );

for ( i = 0; i < parts.length - 1; i++ ) {
parts[ i ] ] || ]
						this._removeClass( value, key );
		} );

return this;
}

_destroy():
var that = this;
this._on( true, this.element, {
remove: function( event ) {
if ( event.target === this ) {
this.destroy();
}
}
};

return null,
this._getCreateEventData() );
this._init();

if ( args.length ) {
options = $.widget.extend.apply( null, [ options ].concat( args ) );
this.each( function() {
var instance = $.data( this, fullNamespace, fullName, instance )
else { return $();
}

this.options = $.widget.extend( {}, this.options );
	options = $.widget.extend.apply( null, [ options ].concat( args ) );

var instance = $.data( this, fullNamespace, fullName, instance )
else { return $();
}

this.options = $.widget.extend( {}, this.options );

this._햡ateInstanceOptions;
want to use the value passed in from `\$\_\_\_\_\_\_\_\_\_\_\.apply( instance, arguments )` to `\$\_\_\_\_\_\_\_\_\_\_\.getOption()`, this is the new value of the classes option which was passed to `\$\_\_\_\_\_\_\_\_\_\_\_\.addClass( this\.classes( {element, keys, classKey, classes: value, tadd: true} ) )`.

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.setOption( Disabled: function( value ) {\$\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' ) } )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.widget(), this\.widgetFullName + ' disabled', null, !!value )\$\_\_\_\_\_\_\_\_\_\_\_\_\.hasClass( 'ui-state-disabled' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.hoverable, null, 'ui-state-hover' )

`;\$\_\_\_\_\_\_\_\_\_\_\_\_\.toggleClass( this\.focusable, null, 'ui-state-focus' )
if (viewids) {viewids.forEach(function(id) {
    var view = views[id];
    view.el.style.display = "none";
    document.body.appendChild(view.el);
    view.remove();
    delete views[id];
});
}

output_jupyterWidgetViews = output_jupyterWidgetViews || [];
PhosphorWidget.Widget.attach(view.pWidget, node);

PhosphorWidget.Widget.attach(view.pWidget, node);
}
}

Polyfill new_comm_buffers(manager, target_name, data, callbacks, metadata, comm_id, buffers) {
    var request = new Promise(function(resolve) {
        requirejs(['services/kernels/comm'], function(comm) {
            var comm = new comm.Comm(target_name, comm_id);
            manager.register_comm(comm);
            content = {
                comm_id : comm_id,
                target_name : target_name,
                data : data || {},
            };
            comm.kernel.send_shell_message("comm_open", content, callbacks, metadata, buffers);
        });
    });
    resolve();
}

module.exports = {
    load_ipython_extension: load_ipython_extension,
};

function load_ipython_extension () {
    return new Promise(function(resolve) {
        requirejs(['base/js/namespace', 'base/js/events', 'notebook/js/outputarea'], function(Jupyter, events, outputarea) {
            require('@phosphor/widgets/style/index.css');
            require('@jupyter-widgets/base/css/index.css');
            require('@jupyter-widgets/controls/css/widgets.css');
            require_events(Jupyter, events, outputarea);
            resolve();
        });
    });
}
```javascript

function new_comm(manager, target_name, data, callbacks, metadata, comm_id, buffers) {
    // Checks whether new_comm needs a polyfill, and calls the correct version
    // Polyfill needed for notebook <5.1, in which the new_comm method does not support a buffers argument.
    // See https://github.com/jupyter-widgets/ipywidgets/pull/1817
    var need_polyfill = manager.new_comm.length < 6;
    if (need_polyfill) {
        return polyfill_new_comm_buffers.apply(null, arguments);
    }
    return manager.new_comm.apply(manager, Array.prototype.slice.call(arguments, 1));
}

function new_comm(manager, target_name, data, callbacks, metadata, comm_id, buffers) {
    // Checks whether new_comm needs a polyfill, and calls the correct version
    // Polyfill needed for notebook <5.1, in which the new_comm method does not support a buffers argument.
    // See https://github.com/jupyter-widgets/ipywidgets/pull/1817
    var need_polyfill = manager.new_comm.length < 6;
    if (need_polyfill) {
        return polyfill_new_comm_buffers.apply(null, arguments);
    }
    return manager.new_comm.apply(manager, Array.prototype.slice.call(arguments, 1));
}

//-----------------------------------
// WidgetManager class
//--------------------------------------------------------------------

var WidgetManager = function (comm_manager, notebook) {
    base.ManagerBase.apply(this);
    // Managers are stored in *reverse* order, so that _managers[0] is the most recent.
    WidgetManager._managers.unshift(this);

    // Attach a comm manager
    this.notebook = notebook;
    this.keyboard_manager = notebook.keyboard_manager;
    this.comm_manager = comm_manager;

    var widget_md = notebook.metadata.widgets
    if (widget_md && widget_md['application/vnd.jupyter.widget-state+json']) {
        this.set_state(notebook.metadata.widgets['application/vnd.jupyter.widget-state+json'])
    }

    // Register with the comm manager
    this.comm_manager.register_target(this.comm_target_name, _bind(this.handle_comm_open, this));

    // Attempt to reconstruct any live comms by requesting them from the
    // back-end.
    var that = this;
    var backed_widgets_loaded = this._get_comm_info().then(function(comm_ids) {
        // Create comm class instances from comm ids.
        var comm_promises =
        Object.keys(comm_ids).map(function(comm_id) {
            return that._create_comm(that.comm_target_name, comm_id);
        });

        // Send a state request message out for each widget comm and wait
        // for the responses.
        return Promise.all(comm_promises).then(function(comms) {
            return Promise.all(comms.map(function(comm) {
                var update_promise = new Promise(function(resolve, reject) {
                    comm.on_msg(function (msg) {
                        base.put_buffers(msg.content.data.state, msg.content.data.buffer_paths, msg.buffers);
                        // A suspected response was received, check to see if
                        // it's a state update. If so, resolve.
                        if (msg.content.data.method === 'update') {
                            resolve({
                                comm: comm,
                                msg: msg
                            });
                        }
                    });
                });
                comm.send({
                    method: 'request_state'
                }, that.callbacks());
                return update_promise;
            }));
        }).then(function(widgets_info) {
            return Promise.all(widgets_info.map(function(widget_info) {
                return that.new_model({
                    model_name: widget_info.msg.content.data.state._model_name,
                    model_module: widget_info.msg.content.data.state._model_module,
                    model_module_version: widget_info.msg.content.data.state._model_module_version,
                    comm: widget_info.comm,
                }, widget_info.msg.content.data.state);
            }));
        }).then(function() {
            // Rerender cells that have
            that.notebook.get_cells().forEach(function(cell) {
                var rerender = cell.output_area && cell.output_area.outputs.find(function(output) {
                    return output.data && output.data[MIME_TYPE];
                });
                if (rerender) {
                    that.notebook.render_cell_output(cell);
                }
            });
        });
    });

    // Create the actions and
    // menu
    this._init_actions();
    this._init_menu();
};

.WidgetManager.prototype = Object.create(base.ManagerBase.prototype);
WidgetManager._managers = []; /* List of widget managers in
*reverse* order, so that _managers[0] is the most recent */

WidgetManager.prototype.loadClass = function(className, moduleName, moduleVersion) {
    if (moduleName === "@jupyter-widgets/controls") {
        return Promise.resolve(widgets[className]);
    } else if (moduleName === "@jupyter-widgets/base") {
        return Promise.resolve(base[className]);
    } else if (moduleName == "@jupyter-widgets/output") {
        return Promise.resolve(outputWidgets[className]);
    } else {
        return new Promise(function(resolve, reject) {
            window.require([moduleName], resolve, reject);
        }).then(function(mod) {
            if (mod[className]) {
                return mod[className];
            } else {
                return Promise.reject('Class ' + className + ' not found in module ' + moduleName);
            }
        });
    }
}

/**
 * Registers manager level actions with the
 * notebook actions list
 */
WidgetManager.prototype._init_actions = function() {
    var notifier = Jupyter.notification_area.widget('widgets');
    this.saveWidgetsAction = {
        handler: (function() {
            base.put_buffers(notebook.metadata.widgets, notebook.metadata.widgets['application/vnd.jupyter.widget-state+json'])
        })
    }
    WidgetManager._managers.then(function(list) {
        // For each widget manager, register any actions with the notebook actions list
        list.forEach(function(manager) {
            manager.saveWidgetsAction = this.saveWidgetsAction;
        }, this);
    });

    // Call _init_actions in a callback
    this.saveWidgetsAction.handler();
}
```
this.get_state({
    drop_defaults: true
}).then(function(state) {
Jupyter.notebook.metadata.widgets = {
    'application/vnd.jupyter.widget-state+json': state
};
Jupyter.menubar.actions.get('jupyter-notebook:save-notebook').handler({
    notebook: Jupyter.notebook
}).bind(this),
icon: 'fa-truck',
help: 'Save the notebook with the widget state information for static rendering
});

this.clearWidgetsAction = {
    handler: (function() {
        delete Jupyter.notebook.metadata.widgets;
        Jupyter.menubar.actions.get('jupyter-notebook:save-notebook').handler({
            notebook: Jupyter.notebook
        });
    }),
help: 'Clear the widget state information from the notebook
};

Jupyter.menubar.actions.register(this.saveWidgetsAction, 'save-with-widgets', 'widgets');

Jupyter.menubar.actions.register(this.saveWidgetsAction, 'save-clear-widgets', 'widgets');

var widgetsMenu = document.createElement('li');
wgsMenuLink = document.createElement('a');
wgsMenuLink.setAttribute('href', '#');
wgsMenuLink.setAttribute('data-toggle', 'dropdown');
wgsMenuLink.innerText = 'Widgets';
wgsMenu.appendChild(widgetsMenu);
wgsSubMenu = document.createElement('ul');
wgsSubMenu.setAttribute('id', 'widget-submenu');
wgsSubMenu.appendChild(this._createMenuItem('Save Notebook Widget State', this.saveWidgetsAction));
wgsSubMenu.appendChild(this._createMenuItem('Clear Notebook Widget State', this.clearWidgetsAction));
wgsSubMenu.appendChild(divider);
wgsSubMenu.appendChild(this._createMenuItem('Download Widget State', saveState.action));
wgsSubMenu.appendChild(this._createMenuItem('Embed Widgets', embedWidgets.action));

var widgetSubMenu = document.querySelector('#widget-submenu');
var divider = document.createElement('li');
var dividerLink = document.createElement('a');
var dividerLink.setAttribute('href', '#');
var dividerLink.setAttribute('data-toggle', 'dropdown');
var dividerLink.innerText = 'Dividers';
var dividerLink.onclick = function() {
    Jupyter.menubar.actions.get('jupyter-notebook:save-notebook').handler({
        notebook: Jupyter.notebook
    });
};
wgsSubMenu.appendChild(divider);

this.get_connected_kernel().then(function(kernel) {
    if (data || metadata) {
        return new_comm(kernel.comm_manager, comm_target_name, data, metadata, comm_id, buffers);
    } else {
        // Construct a comm that already is open on the kernel side. We
        // don't want to send an open message, which would supersede the
        // kernel comm object, so we instead do
        // by hand the necessary parts
        // of the new_comm call above.
        return new Promise(function(resolve) {
            requirejs(['services/kernels/comm'], function(comm) {
                var new_comm = new comm.Comm(comm_target_name, comm_id);
                kernel.comm_manager.register_comm(new_comm);
                resolve(new_comm);
            });
        });
    }
});

var WidgetManager.prototype._create_comm = function(comm_target_name, comm_id, data, metadata, buffers) {
    if (data || metadata) {
        return new_comm(kernel.comm_manager, comm_target_name, data, that.callbacks(), metadata, comm_id, buffers);
    } else {
        // Construct a comm that already is open on the kernel side. We
        // don't want to send an open message, which would supersede the
        // kernel comm object, so we instead do
        // by hand the necessary parts
        // of the new_comm call above.
        return new Promise(function(resolve) {
            requirejs(['services/kernels/comm'], function(comm) {
                var new_comm = new comm.Comm(comm_target_name, comm_id);
                kernel.comm_manager.register_comm(new_comm);
                resolve(new_comm);
            });
        });
    }
};

var WidgetManager.prototype._get_connected_kernel = function() {
    /*
    * Gets a promise for the valid
    * widget models.
    * 
    * requirejs(['services/kernels/comm'], function(comm) {
    * var new_comm = new
    * comm.Comm(comm_target_name, comm_id);
    * kernel.comm_manager.register_comm(new_comm);
    * resolve(new_comm);
    * });
    */
};

var WidgetManager.prototype.get_connected_kernel = function() {
    return new Promise(function(resolve, reject) {
        kernel.comm_info('jupyter.widget', function(msg) {
            resolve(msg['content']['comm_info']());
        });
    });
};

var WidgetManager.prototype._get_comm_info = function() {
    /*
    * Gets a promise for the valid
    * widget models.
    * 
    * requirejs(['services/kernels/comm'], function(comm) {
    * var new_comm = new
    * comm.Comm(comm_target_name, comm_id);
    * kernel.comm_manager.register_comm(new_comm);
    * resolve(new_comm);
    * });
    */
};

var WidgetManager.prototype._create_menu_item = function(title, action) {
    var item = document.createElement('li');
    item.setAttribute('title', action.help);
    item.appendChild(document.createElement('a'));
    item.setAttribute('href', '#');
    item.setAtrribute('data-toggle', 'dropdown');
    item.innerText = title;
    item.onclick = action.handler;
    return item;
};

this.get_state({
    drop_defaults: true
}).then(function(state) {
    Jupyter.notebook.metadata.widgets = {
        'application/vnd.jupyter.widget-state+json': state
    };
if (options === void 0) { options = {}; }
        var viewPromise = model.state_change =
    ManagerBase.prototype.create_view = function (model, options) {
        var _this = this;
    **
     * Creates a
     * Modifies view options. Generally overloaded
     * creates a view for a given model
     * creates a view for a given model
     * creates a view for a given model
     * creates a view for a given model
     * creates a view for a given model

```javascript
var ManagerBase = /** @class */ (function () {
    function ManagerBase() {
        /**
         * Displays a view for a particular model.
         */
    ManagerBase.prototype.callbacks = function (view) {
    var callbacks =
    WidgetManager.prototype.callbacks = function (view) {
    var callbacks =
    WidgetManager.prototype.callbacks = function (view) {
    var callbacks =
    WidgetManager.prototype.callbacks = function (view) {
    var callbacks =
    WidgetManager.prototype.callbacks = function (view) {
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    WidgetManager.prototype.callbacks = function (view) {
    var callbacks =
```
model.state_change.then(function () {
    return this.loadClass(model.get('_view_name'), model.get('_view_module'), model.get('_view_module_version')).then(function (ViewType) {
        var view = new ViewType({
            model: model,
            options: this.setViewOptions(options)
        });
        view.listenTo(model, 'destroy', view.remove);
        return Promise.resolve(view.render()).then(function () { return view; });
    }).catch(function (error) {
        return Promise.reject(error);
    });
});

/**
 * callback handlers specific to a view
 */
ManagerBase.prototype.callbacks = function (view) {
    return {};
}

/**
 * Get a promise for a model by model id.
 */
ManagerBase.prototype.get_model = function (model_id) {
    // TODO: Perhaps we should return a Promise.reject if the model is not found.
    return this._models[model_id];
}

/**
 * Handle when a comm is opened.
 */
ManagerBase.prototype.handle_comm_open = function (comm, msg) {
    var protocolVersion = (msg.metadata || {}).version || '';
    if (protocolVersion.split('.', 1)[0] !== PROTOCOL_MAJOR_VERSION) {
        var error = "Wrong widget protocol version: received protocol version '" + protocolVersion + "', but was expecting major version '" + PROTOCOL_MAJOR_VERSION + "'";
        console.error(error);
        return Promise.reject(error);
    }
    var data = msg.content.data;
    var buffer_paths = data.buffer_paths || [];
    var buffers = (msg.buffers || []).map(function (b) {
        if (b instanceof DataView) {
            return b;
        } else {
            return new DataView(b instanceof ArrayBuffer ? b : b.buffer);
        }
    });
    utils.put_buffers(data.state, buffer_paths, buffers);
    return this.new_model({
        model_name: data.state['_model_name'],
        model_module: data.state['_model_module'],
        model_module_version: data.state['_model_module_version'],
        comm: comm,
    }, data.state).catch(function (error) { return Promise.reject(error); });
}

ManagerBase.prototype.register_model = function (model_id, modelPromise) {
    var _this = this;
    this._models[model_id] = modelPromise;
    modelPromise.then(function (model) {
        model.once('comm:close', function () { delete _this._models[model_id]; }
    });
}

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Create and return a promise for a new widget model.

```javascript
new_model = async (options, serialized_state) => {
  if (serialized_state === void 0) {
    serialized_state = {}; }
  return __awaiter(this, void 0, void 0, function () {
    var model_id, modelPromise;
    return this._make_model(options, serialized_state);
  });
};
```

Options object. At least one must exist.:

```javascript
if (options.model_id) {
  model_id = options.model_id;
} else if (options.comm) {
  model_id = options.model_id = options.comm.comm_id;
}
```

- `options.model_id` - The options for what state to return.
- `options.model_module` - The module containing the model.
- `options.model_module_version` - The version of the model.
- `options.model_name` - The name of the model.
- `options.comm` - The communication interface for the model.

## Example

```javascript
widget_manager.new_model({
  model_name: 'IntSlider',
  model_module: '@jupyter-widgets/controls',
  model_module_version: '1.0.0',
  model_id: 'u-u-i-d'
}).then((model) => { console.log('Create success!', model); },
  (err) => {console.error(err)});
```

@jupyter-widgets/controls

```javascript
@jupyter-widgets/controls
```

* @param options - the options for creating the model.
* @param serialized_state - attribute values for the model.

```javascript
return 
```
### Deep Equality

```javascript
// Test whether they are arrays.
        var a1 = isArray(first);
        var a2 = isArray(second);
        // Bail if check ruled out the other.
        if (isPrimitive(first) || isPrimitive(second)) {
            return false;
        }
        // If one is a primitive, the `===`
```
```
the types are different. If (a1 !== a2) { return false; } // If they are both arrays, compare them. If (a1 & a2) { return deepArrayEqual(first, second); } // At this point, they must both be objects. return deepObjectEqual(first, second); }

// Create a deep copy of a JSON value. *\n * @param value - The JSON value to copy.

// Create a deep copy of the given JSON value. *\n * @param value - The JSON value to copy.

// Do nothing for primitive values. If (isPrimitive(value)) { return value; } // Deep copy an array. If (isArray(value)) { return deepArrayCopy(value); } // Deep copy an object. If (isObject(value)) { return deepObjectCopy(value); }

// Compare two JSON arrays for deep equality. *\n * @param array1 - The first JSON array.
 * @param array2 - The second JSON array.

// Check referential equality first. If (first === second) { return true; } // Test the arrays for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the arrays are equal:

// Compare two JSON objects for deep equality. *\n * @param object1 - The first JSON object.
 * @param object2 - The second JSON object.

// Check referential equality first. If (first === second) { return true; } // Check the first object's keys in the second object's for (var key in first) { if (!(key in second)) { return false; } // Check the second object's keys in the first object. For (var key in second) { if (!(key in first)) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.

// Check referential equality first. If (first === second) { return true; } // Test the objects for equal length. If (first.length !== second.length) { return false; } // Compare the values for equality. For (var i = 0, n = first.length; i < n; ++i) { if (!deepEqual(first[i], second[i])) { return false; } // At this point, the objects are equal:

// Create a deep copy of a JSON object. *\n * @param object - The JSON object to copy.

// Create a deep copy of a JSON array. *\n * @param array - The JSON array to copy.
this._types.push(mime);
this._values.push(data);
/**
 * Remove the data entry for the given MIME type.
 * @param mime - The MIME type of interest.
 * @returns {void} - Always returns void.
 */
MimeData.prototype.removeData = function (mime) {
    var i = this._types.indexOf(mime);
    if (i !== -1) {
        this._types.splice(i, 1);
        this._values.splice(i, 1);
    }
};
/**
 * Remove all data entries from the dataset.
 */
MimeData.prototype.clear = function () {
    this._types.length = 0;
    this._values.length = 0;
};
return MimeData;
}();
exports.MimeData = MimeData;


//////////////////
// WEBPACK FOOTER
// module id = 147
// module chunks = 0

// module id = 148
// module chunks = 0

exports.randomBytes = exports.rng = exports.pseudoRandomBytes = exports.prng = require('randombytes')
exports.createHash = exports.Hash = require('create-hash')
exports.createHmac = exports.Hmac = require('create-hmac')

var algos = require('browserify-sign/algos')
var algoKeys = Object.keys(algos)
var hashes = ['sha1', 'sha224', 'sha256', 'sha384', 'sha512', 'md5', 'rmd160'].concat(algoKeys)
exports.getHashes = function () {
  return hashes
}

var p = require('pbkdf2')
exports.pbkdf2 = p.pbkdf2
exports.pbkdf2Sync = p.pbkdf2Sync

var aes = require('browserify-cipher')

exports.Cipher = aes.Cipher
exports.createCipher = aes.createCipher
exports.Cipheriv = aes.Cipheriv
exports.createCipheriv = aes.createCipheriv
exports.Decipher = aes.Decipher
exports.createDecipher = aes.createDecipher
exports.Decipheriv = aes.Decipheriv
exports.createDecipheriv = aes.createDecipheriv
exports.getCiphers = aes.getCiphers
exports.listCiphers = aes.listCiphers

var dh = require('diffie-hellman')

exports.DiffieHellmanGroup = dh.DiffieHellmanGroup
exports.createDiffieHellmanGroup = dh.createDiffieHellmanGroup
exports.createDiffieHellmanGroup = dh.createDiffieHellmanGroup
exports.DiffieHellman = dh.DiffieHellman
exports.createDiffieHellman = dh.createDiffieHellman
exports.DiffieHellmanGroup = dh.createDiffieHellmanGroup
exports.DiffieHellman = dh.DiffieHellman
exports.sign = require('browserify-sign')
exports.createSign = sign.createSign
exports.createSign = sign.createSign
exports.Sign = sign.Sign
exports.createVerify = sign.createVerify
exports.Verify = sign.Verify
exports.createECDH = require('create-ecdh')

var rf = require('randomfill')

exports.randomFill = rf.randomFill
exports.randomFillSync = rf.randomFillSync

exports.createCredentials = function () {
  throw new Error('createCredentials() is not implemented yet.

  we accept pull requests', 'https://github.com/crypto-browserify/crypto-browserify'
})
.exports('createCredentials')
new Error('sorry, createCredentials is not implemented yet."
'https://github.com/crypto-browserify/crypto-browserify"
']}(join('"')))}
exports.constants = 

'DH_CHECK_P_NOT_SAFE_PRIME': 2,
'DH_CHECK_P_NOT_PRIME': 1,
'DH_ENABLED_TO_CHECK_GENERATOR': 4,
'DH_NOT_SAFE_PRIME_GENERATOR': 8,
'NPN_ENABLED': 1,
'ALPN_ENABLED': 1,
'RSA_PKCS1_PADDING': 2,
'RSA_NO_PADDING': 3,
'RSA_PKCS1_OAEP_PADDING': 4,
'RSA_X931_PADDING': 5,
'RSA_PKCS1_PSS_PADDING': 6,
'POINT_CONVERSION_COMPRESSED': 2,
'POINT_CONVERSION_UNCOMPRESSED': 4,
'POINT_CONVERSION_HYBRID': 6,

exports.read = function (buffer, offset, isLE, mLen, nBytes) {
  var e, m
  var eLen = nBytes * 8 - mLen - 1
  var eMax = (1 << eLen) - 1
  var eBias = eMax >> 1
  var nBits = 7
  var i = eLen - 1
  for (; i >= 0; i--) {
    var d = isLE ? ((1 << (nBits - i)) - 1) : 0
    var s = buffer[0]
    e += s * eBias
    nBits -= 1
  }
  return e
}

exports.write = function (buffer, value, offset, isLE, mLen, nBytes) {
  var e, m, c
  var eLen = nBytes * 8 - mLen - 1
  var eMax = (1 << eLen) - 1
  var eBias = eMax >> 1
  var rt = Math.pow(2, -mLen)
  var i = isLE ? 0 : (nBytes - 1)
  var d = isLE ? 1 : -1
  var s = value < 0 || (value === 0 && 1 / value < 0) ? 1 : 0
  var value = Math.abs(value)
  if (isNaN(value) || value === Infinity) {
    m = isNaN(value) ? 1 : 0
    e = eMax
  } else {
    e = Math.floor(Math.log(value) / Math.LN2)
    if (value * (c = Math.pow(2, -e)) < 1) {
      e--
      c *= 2
    }
    if (e + eBias >= 1) {
      value += rt / c
    } else {
      value += rt * Math.pow(2, 1 - eBias)
    }
    if (value * c >= 2) {
      e++
      c /= 2
    }
    if (e + eBias >= 1) {
      value += rt / c
    } else {
      value += rt * Math.pow(2, 1 - eBias)
    }
    if (m < 0) {
      e = eMax
    } else if (e + eBias >= 1) {
      m = value - c
    } else {
      m = Math.pow(2, -mLen)
    }
    m = 0
  }
  for (; mLen >= 8; buffer[0] = m & 0xff, m /= 256, mLen -= 8) {
    m = 0
  }
  e = (e << mLen) | m
  eLen += mLen
  for (; eLen > 0; buffer[0] = e & 0xff, e /= 256, eLen -= 8) {
    e = 0
  }
  buffer[0] = s * 128
}

toArray (buf) {
  if ((buf.length % intSize) !== 0) {
    var len = buf.length + (intSize - (buf.length % intSize))
    buf = Buffer.concat([buf, zeroBuffer], len)
  }
  var arr = new Array(buf.length >>> 2)
  for (var i = 0, j = 0; i < buf.length; i += intSize, j++) {
    arr[j] = buf.readInt32LE(i)
  }
  return arr
}

module.exports = function hash (buf, fn) {
  var arr = fn(toArray(buf), buf.length * charSize)
  buf = new Buffer(hashSize)
  for (var i = 0; i < arr.length; i++) {
    buf.writeInt32LE(arr[i], i * 4, true)
  }
  return buf
}

function HashBase (blockSize) {
  Transform.call(this)
  this._blockSize = blockSize
  this._blockOffset = 0
  this._length = 0
  this._finalized = false
  this._hash = null
  this.prototype._transform = function (chunk, encoding, callback) {
    var error = null
    try {
      if (encoding !== 'buffer') chunk = new Buffer(chunk, encoding)
    } catch (err) {
      error = err
    }
    callback(error, chunk)
  }

  this.prototype._flush = function (callback) {
    var error = null
    callback(error, this._block)
  }

  this.prototype._finalized = function (error) {
    callback(error, this._block)
  }
}

module.exports = function (buffer, createCredentials) {
  if (!Buffer.isBuffer(data) && typeof data !== 'string') throw new TypeError('Data
have completed. // So if we're currently running a task, we'll need to delay this invocation.
if (currentlyRunningATask) { // Delay by doing a setTimeout. setImmediate was tried instead, but in Firefox 7 it generated an // "too much recursion" error.
    setTimeout(runIfPresent, 0, handle);
} else {
    var task = tasksByHandle[handle];
    if (task) {
        currentlyRunningATask = true;
        try {
            run(task);
        } finally {
            clearImmediate(handle);
        }
    }
}

function installNextTickImplementation() {
    registerImmediate = function(handle) {
        process.nextTick(function () {
            runIfPresent(handle);
        });
    };
}

function canUsePostMessage() {
    // The test against `importScripts` prevents this implementation from being installed inside a web worker,
    // where `global.postMessage` means something completely different and can't be used for this purpose.
    if (global.postMessage && !global.importScripts) {
        var postMessageIsAsynchronous = true;
        var oldOnMessage = global.onmessage;
        global.onmessage = function() {
            postMessageIsAsynchronous = false;
            global.global.postMessage("\"", ";\"");
            global.onmessage = oldOnMessage;
        };
        return postMessageIsAsynchronous;
    }
}

function installPostMessageImplementation() {
    // Installs an event handler on `global` for the `message` event: see
    var messagePrefix = "setImmediate$" + Math.random() + "\";
    var onGlobalMessage = function(event) {
        if (event.source === global
            && typeof event.data === "string" &&
            event.data.indexOf(messagePrefix) === 0) {
            runIfPresent(+event.data.slice(messagePrefix.length));
        };
    };
    if (global.addEventListener) {
        global.addEventListener("message", onGlobalMessage, false);
    } else {
        global.attachEvent("onmessage", onGlobalMessage);
    }
    registerImmediate = function(handle) {
        global.postMessage(messagePrefix + handle, "*");
    };
}

function installMessageChannelImplementation() {
    var channel = new MessageChannel();
    channel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    registerImmediate = function(handle) {
        channel.port2.postMessage(handle);
    };
}

function installReadyStateChangeImplementation() {
    var html = doc.documentElement;
    registerImmediate = function(handle) {
        // Create a <script> element; its readystatechange event will be
        // fired asynchronously once it is inserted
        // into the document. Do so, thus queuing up the task. Remember to
        // clean up once it's been called.
        var script = doc.createElement("script");
        script.onreadystatechange = function () {
            runIfPresent(handle);
        };
        html.appendChild(script);
    };
}

function installSetTimeoutImplementation() {
    registerImmediate = function(handle) {
        setTimeout(runIfPresent, 0, handle);
    };
}

// If supported, we should attach to the prototype of global,
// since that is where setTimeout et al. live.
var attachTo = Object.getPrototypeOf &&
    Object.getPrototypeOf(global);
attachTo = attachTo.attachTo & & attachTo.setImmediate ? attachTo : global;

// Don't get fooled by e.g. browsersify environments.
if ([] instanceof call(global.process) === ":\"\"(process)\"");

// For Node.js before 0.9
installNextTickImplementation();
else if (canUsePostMessage()) {

// For non-I E10 modern browsers
installPostMessageImplementation();
else if (global.MessageChannel) {

// For web workers, where supported
installMessageChannelImplementation();
else if (doc

attachTo.clearImmediate = clearImmediate;
}

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If `localStorage.throwDeprecation = true` is set, then deprecated functions will throw an Error when invoked.

If `localStorage.traceDeprecation = true` is set, then deprecated functions will invoke a console.trace() instead of console.error().

The string to print to the console when `fn` is invoked.

A new 'deprecated' version of `fn`:

```javascript
// if (config('noDeprecation')) {
return fn;
}

var fn = function deprecated(fn, msg) {
  if (!warned) {
    if (config('throwDeprecation')) {
      throw new Error(msg);
    } else if (config('traceDeprecation')) {
      console.trace(msg);
    } else {
      console.warn(msg);
    }
    warned = true;
  }
  return fn.apply(this, arguments);
};
```

Checks `localStorage` for boolean values for the given `name`.

```javascript
function config(name) {
  var val = global.localStorage[name];
  if (null == val) return false;
  return String(val).toLowerCase() === 'true';
}
```

A passthrough stream.

```javascript
module.exports = require('./lib/_stream_writable.js');
```

```javascript
module.exports = require('./readable').Transform
```

```javascript
module.exports = require('./readable').PassThrough
```

```javascript
function Sha () {
this.init();
this._w = W;
this._a = 0x67452301;
this._b = 0xefcdab89;
this._c = 0x98badcfe;
this._d = 0x10325476;
this._e = 0xc3d2e1f0;
this.init();
```

```javascript
var K = [
  0x5a827999, 0x6ed9eba1, 0x8f1bbcdc | 0, 0xca62c1d6 | 0
];
```

```javascript
function Sha () {
  this.init();
  this._w = W;
  this._a = 0x67452301;
  this._b = 0xefcdab89;
  this._c = 0x98badcfe;
  this._d = 0x10325476;
  this._e = 0xc3d2e1f0;
  this.init();
}
```

```javascript
function Sha () {
  this.init();
  this._w = W;
  this._a = 0x67452301;
  this._b = 0xefcdab89;
  this._c = 0x98badcfe;
  this._d = 0x10325476;
  this.init();
}
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];
```

```javascript
var K = [
  0x5a827999, 0x6ed9eba1, 0x8f1bbcdc | 0, 0xca62c1d6 | 0
];
```
(num << 5) | (num >>> 27)

function rotl30 (num) {
  return (num << 30) | (num >>> 2)
}

function ft (s, b, c, d) {
  if (s === 0) return (b & c) | ((~b) & d)
  if (s === 2) return (b & c) | (b & d) | (c & d)
  return b ^ c ^ d
}

Sha.prototype._update = function (M) {
  var W = this._w

  var a = this._a | 0
  var b = this._b | 0
  var c = this._c | 0
  var d = this._d | 0
  var e = this._e | 0

  for (var i = 0; i < 16; ++i) W[i] = M.readInt32BE(i * 4)
  for (; i < 80; ++i) W[i] = W[i-1] ^ W[i-7] ^ W[i-16] for (var j = 0; j < 80; ++j) {
    var s = ~~(j / 20)
    var t = (rotl5(a) + ft(s, b, c, d) + e + W[j] + K[s]) | 0

    e = d
    d = c
    c = rotl30(b)
    b = a
  }

  this._a = (a + this._a) | 0
  this._b = (b + this._b) | 0
  this._c = (c + this._c) | 0
  this._d = (d + this._d) | 0
  this._e = (e + this._e) | 0
}

Sha.prototype._hash = function () {
  var H = Buffer.allocUnsafe(20)
  H.writeInt32BE(this._a, 0)
  H.writeInt32BE(this._b, 0)
  H.writeInt32BE(this._c, 0)
  H.writeInt32BE(this._d, 0)
  H.writeInt32BE(this._e, 0)

  return H
}

module.exports = Sha

// WEBPACK FOOTER
// ...
```javascript
function Sha384()
{

  function writeInt64BE (h, l, offset)
  { H.writeInt32BE(h, offset)
    H.writeInt32BE(l, offset + 4)
  }

  this._ah = 0x367cd507
  this._al = 0x3070dd17
  this._bh = 0xf70e5939
  this._bl = 0xffc00b31
  this._ch = 0x68581511
  this._cl = 0x64f98fa7
  this._dh = 0xbefa4fa4

  return this
}

Sha384.prototype._hash = function ()
{
  var H = Buffer.allocUnsafe(48)

  function writeInt64BE (h, l, offset)
  { H.writeInt32BE(h, offset)
    H.writeInt32BE(l, offset + 4)
  }

  writeInt64BE(this._ah, this._al, 0)
  writeInt64BE(this._bh, this._bl, 8)
  writeInt64BE(this._ch, this._cl, 16)
  writeInt64BE(this._dh, this._dl, 24)
  writeInt64BE(this._eh, this._el, 32)
  writeInt64BE(this._fh, this._fl, 40)

  return H
}

module.exports = Sha384


...

`
} else if (aesModes[suite]) {
  return new DES((
    key: key,
    iv: iv,
    mode: suite
  ));
} else {
  throw new TypeError('invalid suite type');
}

exports.getCiphers = getCiphers


//////////////////
// WEBPACK FOOTER
// ../node_modules/browserify-
(this._d + d) | 0
}

MD5.prototype._digest = function () {
  return this._digest(this._a, 0
}

module.exports = MD5


//////////////////
// WEBPACK FOOTER

*/

throwIfNotStringOrBuffer (val, prefix) {
  if (!Buffer.isBuffer(val) && typeof val !== 'string') {
    throw new TypeError(prefix + ' must be a string or a buffer')
  }
}

function HashBase (blockSize) {
  Transform.call(this)

  this._block = Buffer.allocUnsafe(blockSize)
  this._blockSize = blockSize
  this._blockOffset = 0
  this._length = [0, 0, 0, 0]

  this._finalized = false
}

inherits(HashBase, Transform)

HashBase.prototype._transform = function (chunk, encoding, callback) {
  var error = null
  try {
    this.update(chunk, encoding)
  } catch (err) {
    error = err
  }

  callback(error)
}

HashBase.prototype._flush = function (callback) {
  var error = null
  try {
    this.push(this.digest())
  } catch (err) {
    error = err
  }

  callback(error)
}

HashBase.prototype.update = function (data, encoding) {
  throwIfNotStringOrBuffer(data, 'Data')
  if (this._finalized) throw new Error('Digest already called')
  if (!Buffer.isBuffer(data)) data = Buffer.from(data, encoding)

  // consume data
  var block = this._block
  var offset = 0
  while (this._blockOffset + data.length - offset >= this._blockSize) {
    for (var i = this._blockOffset; i < this._blockSize; i++) block[i++] = data[offset++]
    this._update()
    this._blockOffset = 0
  }
  while (offset < data.length) block[this._blockOffset++] = data[offset++]

  // update length
  for (var j = 0, carry = data.length * 8; carry > 0; ++j) {
    this._length[j] += carry
    carry = (this._length[j] / 0x0100000000) | 0
    if (carry > 0) this._length[j] -= 0x0100000000 * carry
  }

  return this
}

HashBase.prototype._update = function () {
  throw new Error('_update is not implemented')
}

HashBase.prototype.digest = function (encoding) {
  if (this._finalized) throw new Error('Digest already called')
  this._finalized = true
  this._finalized = false
  return this
}

HashBase.prototype._digest = function () {
  throw new Error('_digest is not implemented')
}

module.exports = HashBase


//////////////////
// WEBPACK FOOTER

*/

var MODES = require('./modes')
var AuthCipher = require('./authCipher')
var Buffer = require('safe-buffer').Buffer
var StreamCipher = require('./streamCipher')
var Transform = require('cipher-base')
var aes = require('./aes')
var ebtk = require('evp_bytestokey')
var inherits = require('inherits')

function Cipher (mode, key, iv) {
  Transform.call(this)
  this._cache = new Splitter()
  this._cipher = new aes.AES(key)
  this._prev = Buffer.from(iv)
  this._mode = mode
  this._autopadding = true
  return this
}

inherits(Cipher, Transform)

Cipher.prototype._update = function (data) {
  var chunk = this._cache.flush()
  if (this._autopadding) {
    chunk = this._mode.encrypt(this, chunk)
    this._cipher.scrub()
    return chunk
  }

  if (chunk.equals(PADDING)) {
    this._cipher.scrub()
    throw new Error('data not multiple of block length')
  }

  return Buffer.concat([chunk, this._mode.mode(new Splitter()).this._cipher.encrypt(chunk)]
}

Cipher.prototype._flush = function () {
  var chunk = this._cache.flush()
  if (this._autopadding) {
    chunk = this._mode.encrypt(this, chunk)
    this._cipher.scrub()
    return chunk
  }

  if (chunk.equals(PADDING)) {
    this._cipher.scrub()
    throw new Error('data not multiple of block length')
  }

  return Buffer.concat([chunk, this._mode.mode(new Splitter).this._cipher.encrypt(chunk)]
}

Cipher.prototype._digest = function () {
  return this
}

Cipher.prototype._transform = function (chunk, encoding, callback) {
  var error = null
  try {
    this.update(chunk, encoding)
  } catch (err) {
    error = err
  }

  callback(error)
}

Cipher.prototype._final = function () {
  var chunk = this._cache.flush()
  if (this._autopadding) {
    chunk = this._mode.encrypt(this, chunk)
    this._cipher.scrub()
    return chunk
  }

  if (chunk.equals(PADDING)) {
    this._cipher.scrub()
    throw new Error('data not multiple of block length')
  }

  return Buffer.concat([chunk, this._mode.mode(new Splitter).this._cipher.encrypt(chunk)].
}
data)

```
function get () {
  if (this.cache.length > 15) {
    var out = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    return out
  }

  return null
}

Splitter.prototype.flush = function () {
  if (this.cache.length > 15) {
    var out = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    return out
  }

  return null
}

Splitter.prototype.get = function () {
  if (this.cache.length > 15) {
    var out = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    return out
  }

  return null
}

function getBlock
```
(self) { 
  self._prev = self._cipher.encryptBlock(self._prev) 
  return self._prev 
}

exports.encrypt = function (self, chunk) { 
  while (self._cache.length < chunk.length) { 
    self._cache = Buffer.concat([self._cache, 
      getBlock(self)]) 
  }
  var pad = self._cache.slice(0, chunk.length) 
  self._cache = self._cache.slice(chunk.length) 
  return xor(chunk, pad) 
}

exports.encrypt = function (self, chunk) { 
  while (self._cache.length < chunk.length) { 
    self._cache = Buffer.concat([self._cache, 
      getBlock(self)]) 
  }
  var pad = self._cache.slice(0, chunk.length) 
  self._cache = self._cache.slice(chunk.length) 
  return xor(chunk, pad) 
}


GHASH.prototype.ghash = function (block) { 
  var i = -1
  while (++i < block.length) {
    this.state[i] ^= block[i]
  }
  this._multiply()
}

GHASH.prototype._multiply = function () { 
  var Vi = toArray(this.h) 
  var Zi = [0, 0, 0, 0]
  var j, xi, lsbVi
  var i = -1
  while (++i < 128) { 
    xi = (this.state[~~(i / 8)] & (1 << (7 - (i % 8)))) !== 0
    if (xi) { 
      // Z_i+1 = Z_i ^ V_i
      Zi[0] ^= Vi[0]
      Zi[1] ^= Vi[1]
      Zi[3] ^= Vi[3]
    } 
    // Store the value of LSB(V_i)
    lsbVi = (Vi[3] & 1) !== 0
    // V_i+1 = V_i >> 1
    for (j = 3; j > 0; j--) { 
      Vi[j] = (Vi[j] >>> 1) |
        ((Vi[j - 1] & 1) << 31)
    }
    Vi[0] = Vi[0] >>> 1
    // If LSB(V_i) is 1, V_i+1 = (V_i >> 1) ^ R
    if (lsbVi) { 
      Vi[0] = Vi[0] ^ (0xe1 << 24)
    }
  }
  this.state = fromArray(Zi)
}

GHASH.prototype.update = function (buf) { 
  this.cache = Buffer.concat([this.cache, buf]) 
  var chunk
  while (this.cache.length >= 16) { 
    chunk = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    this.ghash(chunk)
  }
}

GHASH.prototype.final = function (abl, bl) { 
  if (this.cache.length) { 
    this.ghash(Buffer.concat([this.cache, ZEROES], 16))
  }
  this.cache = Buffer.concat([this.cache, ZEROES], 16)
  this.ghash(this.cache)
}

function AuthCipher () { 
  this.h = void 0
  this.state = Buffer.allocUnsafe(0)
  this.cache = Buffer.allocUnsafe(0)
  this._autopadding = true
}

authCipher.prototype.ghash = function (block) { 
  var i = -1
  while (++i < block.length) {
    this.state[i] ^= block[i]
  }
  this._multiply()
}

authCipher.prototype._multiply = function () { 
  var Vi = toArray(this.h) 
  var Zi = [0, 0, 0, 0]
  var j, xi, lsbVi
  var i = -1
  while (++i < 128) { 
    xi = (this.state[~~(i / 8)] & (1 << (7 - (i % 8)))) !== 0
    if (xi) { 
      // Z_i+1 = Z_i ^ V_i
      Zi[0] ^= Vi[0]
      Zi[1] ^= Vi[1]
      Zi[3] ^= Vi[3]
    } 
    // Store the value of LSB(V_i)
    lsbVi = (Vi[3] & 1) !== 0
    // V_i+1 = V_i >> 1
    for (j = 3; j > 0; j--) { 
      Vi[j] = (Vi[j] >>> 1) |
        ((Vi[j - 1] & 1) << 31)
    }
    Vi[0] = Vi[0] >>> 1
    // If LSB(V_i) is 1, V_i+1 = (V_i >> 1) ^ R
    if (lsbVi) { 
      Vi[0] = Vi[0] ^ (0xe1 << 24)
    }
  }
  this.state = fromArray(Zi)
}

authCipher.prototype.update = function (buf) { 
  this.cache = Buffer.concat([this.cache, buf]) 
  var chunk
  while (this.cache.length >= 16) { 
    chunk = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    this.ghash(chunk)
  }
}

authCipher.prototype.final = function (abl, bl) { 
  if (this.cache.length) { 
    this.ghash(Buffer.concat([this.cache, ZEROES], 16))
  }
  this.cache = Buffer.concat([this.cache, ZEROES], 16)
  this.ghash(this.cache)
}

authCipher.prototype.update = function (buf) { 
  this.cache = Buffer.concat([this.cache, buf]) 
  var chunk
  while (this.cache.length >= 16) { 
    chunk = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    this.ghash(chunk)
  }
}

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  if (this.cache.length) { 
    this.ghash(Buffer.concat([this.cache, ZEROES], 16))
  }
  this.cache = Buffer.concat([this.cache, ZEROES], 16)
  this.ghash(this.cache)
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    chunk = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    this.ghash(chunk)
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authCipher.prototype.final = function (abl, bl) { 
  if (this.cache.length) { 
    this.ghash(Buffer.concat([this.cache, ZEROES], 16))
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  this.cache = Buffer.concat([this.cache, ZEROES], 16)
  this.ghash(this.cache)
}

authCipher.prototype.update = function (buf) { 
  this.cache = Buffer.concat([this.cache, buf]) 
  var chunk
  while (this.cache.length >= 16) { 
    chunk = this.cache.slice(0, 16)
    this.cache = this.cache.slice(16)
    this.ghash(chunk)
  }
}

authCipher.prototype.final = function (abl, bl) { 
  if (this.cache.length) { 
    this.ghash(Buffer.concat([this.cache, ZEROES], 16))
  }
  this.cache = Buffer.concat([this.cache, ZEROES], 16)
  this.ghash(this.cache)
(config.type === 'stream') {
  return new StreamCipher(config.module, password, iv, true);
} else if (config.type === 'auth') {
  return new AuthCipher(config.module, password, iv, true);
}

// WEBPACK FOOTER
// ../node_modules/browsersify-aes/index.js

function Cipher(options) {
  this.options = options;

  this.type = (this.type || 'encrypt')
    .overrideable('type');
  this.blockSize = 8
    .overrideable('blockSize');
  this.buffer = new Array(this.blockSize);
  this.bufferOff = 0;
  this.exports.permute = Cipher.exports.permute;
  this.exports.permuteTable = permuteTable;
  this.exports.permute_table = permuteTable;
  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permuteTable;
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  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permuteTable;
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  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permuteTable;
  this.exports.permuteTable = permut...
return out;
};

Cipher.prototype.final = function final(buffer) {
  var first;
  if (buffer)
    first = this.update(buffer);
  var last;
  if (this.type === 'encrypt')
    last = this._finalDecrypt();
  else
    last = this._finalDecryption();

  if (first)
    return first.concat(last);
  else
    return last;
};

Cipher.prototype._pad = function _pad(buffer, off) {
  if (off === 0)
    return false;

  while (buffer.length - off < 1)
    buffer[off++] = 0;

  return true;
};

Cipher.prototype._finalDecrypt = function _finalDecrypt() {
  var buffer = bufferOff;
  var out = new Array(this.blockSize);
  this.update(buffer, 0, 0, 0);
  return out;
};

Cipher.prototype._finalEncrypt = function _finalEncrypt() {
  var buffer = bufferOff;
  var out = new Array(this.blockSize);
  this.update(buffer, 0, out, 0);
  return out;
};

Cipher.prototype.unpad = function unpad(buffer) {
  var out = new Array(this.blockSize);
  this.update(buffer, 0, out, 0);
  return out;
};

Cipher.prototype.finalEncrypt = function finalEncrypt() {
  var buffer = bufferOff;
  var out = new Array(this.blockSize);
  this.update(buffer, 0, out, 0);
  return out;
};

Cipher.prototype.decrypt = function decrypt(buffer) {
  var out = new Array(this.blockSize);
  this.update(buffer, 0, out, 0);
  return out;
};

Cipher.prototype.encrypt = function encrypt(buffer) {
  var out = new Array(this.blockSize);
  this.update(buffer, 0, out, 0);
  return out;
};

Cipher.prototype.init = function init(options) {
  this.iv = options.iv;
  this.blockSize = options.blockSize;
};

Cipher.prototype.create = function create(options) {
  return new Cipher(options);
};

Cipher.prototype.qualify = function qualify(cipher) {
  if (this.type !== cipher.type)
    throw new Error('Invalid type');

  return cipher;
};

Cipher.prototype.derive = function derive(cipher) {
  if (this.type !== cipher.type)
    throw new Error('Invalid type');

  return cipher;
};
this.constructor.super_.prototype

var iv = state.iv;
if (this.type === 'encrypt') {
  for (var i = 0; i < this.blockSize; i++)
    iv[i] = inp[inOff + i];
}

superProto._update.call(this, iv, 0, out, outOff);
else {
  var iv = state.iv;
  for (var i = 0; i < this.blockSize; i++)
    iv[i] = out[outOff + i];
}
}

var iv = state.iv;
if (this.type === 'encrypt') {
  for (var i = 0; i < this.blockSize; i++)
    iv[i] ^= inp[inOff + i];

  superProto._update.call(this, iv, 0, out, outOff);

  for (var i = 0; i < this.blockSize; i++)
    iv[i] = out[outOff + i];
} else {
  superProto._update.call(this, inp, inOff, out, outOff);

  for (var i = 0; i < this.blockSize; i++)
    out[outOff + i] ^= iv[i];

  for (var i = 0; i < this.blockSize; i++)
    iv[i] = inp[inOff + i];
}

// WEBPACK FOOTER
// module id = 187
// module chunks = 0

/* (ignored) */
Open Source Used In Secure Workload 3.6.1.1  20334

// WEBPACK FOOTER

var BN = require('bn.js');
var MillerRabin = require('miller-rabin');
var millerRabin = new MillerRabin();
var TWENTYFOUR = new BN(24);
var ELEVEN = new BN(11);
var TEN = new BN(10);
var THREE = new BN(3);
var SEVEN = new BN(7);
var primes = require('./generatePrime');
var randomBytes = require('randombytes');
module.exports = DH;

function setPublicKey(pub, enc) {
  enc = enc || 'utf8';
  if (!Buffer.isBuffer(pub)) {
    pub = new Buffer(pub, enc);
  }
  this._pub = new BN(pub);
  return this;
}

function setPrivateKey(priv, enc) {
  enc = enc || 'utf8';
  if (!Buffer.isBuffer(priv)) {
    priv = new Buffer(priv, enc);
  }
  this._priv = new BN(priv);
  return this;
}

var primeCache = {};
function checkPrime(prime, generator) {
  var gen = generator.toString('hex');
  var hex = [gen, prime.toString(16)].join('_');
  if (hex in primeCache) {
    return primeCache[hex];
  }
  var error = 0;

  if (prime.isEven() ||
    !primes.simpleSieve ||
    !primes.fermatTest(prime) ||
    !millerRabin.test(prime)) {
    //not a prime so +1
    error += 1;

    if (gen === '02' || gen === '05') {
      // we'd be able to check the
generator
      // it would fail so +8
      error += 8;
    } else {
      //we wouldn't be able to test the generator
      // so +4
      error += 4;
    }
    primeCache[hex] = error;
    return error;
  }
  if (!millerRabin.test(prime.shrn(1))) {
    //not a safe prime
    error += 2;
  }
  var rem;
  switch (gen) {
    case '02':
      if (prime.mod(TWENTYFOUR).cmp(ELEVEN)) {
        // unsuitable generator
        error += 8;
      }
      break;
    case '05':
      rem = prime.mod(TEN);
      if (rem.cmp(THREE) && rem.cmp(SEVEN)) {
        // prime mod 10 needs to equal 3 or 7
        error += 8;
      }
      break;
    default:
      error += 4;
  }
  primeCache[hex] = error;
  return error;
}

function DH(prime, generator, malleable) {
  this.setGenerator(generator);
  this.__prime = new BN(prime);
  this._prime = BN.mont(this.__prime);
  this._primeLen = prime.length;
  this._pub = undefined;
  this._priv = undefined;
  this._primeCode = undefined;
  if (malleable) {
    this.setPublicKey = setPublicKey;
    this.setPrivateKey = setPrivateKey;
  } else {
    this._primeCode = 8;
  }
  Object.defineProperty(DH.prototype, 'verifyError', {
    enumerable: true,
    get: function () {
      if (typeof this._primeCode !== 'number') {
        this._primeCode = checkPrime(this.__prime, this.__gen);
      }
      return this._primeCode;
    }
  });
  this.generateKeys = function () {
    if (!this._priv) {
      this._priv = new BN(randomBytes(this._primeLen));
    }
    this._pub = this._gen.toRed(this._prime).redPow(this._priv).fromRed();
    return this.getPublicKey();
  };
Open Source Used In Secure Workload 3.6.1.1  20335
Buffer(x.toArray())

if (x.length < q.byteLength()) {
  var zeros = new Buffer(q.byteLength() - x.length)
  x.fill(0)
  var k = new Buffer(hlen)
  k.fill(0)
  k = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
  v = createHmac(algo, k).update(v).digest()
  k = createHmac(algo, k).update(v).update(new Buffer(1)).digest()
  v = createHmac(algo, k).update(v).update(new Buffer(1)).
}

Buffer(x.toArray())

if (x.length < q.byteLength()) {
  var zeros = new Buffer(q.byteLength() - x.length)
  zeros.fill(0)
  x = Buffer.concat([ zeros, x ])
}

var hlen = hash.length
var hbits = bits2octets(hash, q)
var
v = new Buffer(hlen)
v.fill(1)
v = Buffer.concat([ zeros, x ])

if (hbits > 0) bits.ishrn(shift) return bits

v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()

var
k = new Buffer(1)

while (k.cmpn(-1) != -1) {
  k = Buffer.concat([ zeros, k ])
  k = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
  v = createHmac(algo, k).update(v).digest()
  k = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
  v = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
}

Buffer(x.toArray())

if (x.length < q.byteLength()) {
  var zeros = new Buffer(q.byteLength() - x.length)
  zeros.fill(0)
  x = Buffer.concat([ zeros, x ])
}

var
k = Buffer(x.toArray())

if (x.length < q.byteLength()) {
  var zeros = new Buffer(q.byteLength() - x.length)
  zeros.fill(0)
  x = Buffer.concat([ zeros, x ])
}

var hlen = hash.length
var hbits = bits2octets(hash, q)
var
v = new Buffer(hlen)
v.fill(1)
v = Buffer.concat([ zeros, x ])

if (hbits > 0) bits.ishrn(shift) return bits

v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()

var
k = new Buffer(1)

while (k.cmpn(-1) != -1) {
  k = Buffer.concat([ zeros, k ])
  k = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
  v = createHmac(algo, k).update(v).digest()
  k = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
  v = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
}

Buffer(x.toArray())

if (x.length < q.byteLength()) {
  var zeros = new Buffer(q.byteLength() - x.length)
  zeros.fill(0)
  x = Buffer.concat([ zeros, x ])
}

var hlen = hash.length
var hbits = bits2octets(hash, q)
var
v = new Buffer(hlen)
v.fill(1)
v = Buffer.concat([ zeros, x ])

if (hbits > 0) bits.ishrn(shift) return bits

v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()

var
k = new Buffer(1)

while (k.cmpn(-1) != -1) {
  k = Buffer.concat([ zeros, k ])
  k = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
  v = createHmac(algo, k).update(v).digest()
  k = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
  v = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
}

Buffer(x.toArray())

if (x.length < q.byteLength()) {
  var zeros = new Buffer(q.byteLength() - x.length)
  zeros.fill(0)
  x = Buffer.concat([ zeros, x ])
}

var hlen = hash.length
var hbits = bits2octets(hash, q)
var
v = new Buffer(hlen)
v.fill(1)
v = Buffer.concat([ zeros, x ])

if (hbits > 0) bits.ishrn(shift) return bits

v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
v = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()

var
k = new Buffer(1)

while (k.cmpn(-1) != -1) {
  k = Buffer.concat([ zeros, k ])
  k = createHmac(algo, k).update(v).update(new Buffer([ 0 ])).digest()
  v = createHmac(algo, k).update(v).digest()
  k = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
  v = createHmac(algo, k).update(v).update(new Buffer([ 1 ])).digest()
Open Source Used In Secure Workload 3.6.1.1  20337

```javascript
(points[a].y.cmp(points[b].y.redNeg()) === 0) {
      comb[1] = points[a].toJ().mixedAdd(points[b]);
      comb[2] = points[a].add(points[b]);
      comb[2] = points[a].toJ().mixedAdd(points[b].neg());
    } else if

    // Try to avoid Projective points, if possible
    if (points[a].y.cmp(points[b].y) === 0)
      continue;

    var comb = [
      points[a], /* 1 */
      null, /* 3 */
      null, /* 5 */

    var nafPoints = p._getNAFPoints(defW);
    max = Math.max(naf[a].length, max);
    max = Math.max(naf[b].length, max);
    // Comb small window NAFs
  for (var i = len - 1; i >= 1; i -= 2) {
    var a = i - 1;
    var b = i;
    if

    var naf = this._wnafT3;

  // Fill all arrays
  var max = 0;
  for (var i = 0; i < len; i++) {
    var p = points[i];

  var doubles = p._getDoubles();
  var naf = getNAF(k, 1);
  var I = (1 <= (doubles.step + 1)) - (doubles.step % 2 === 0 ? 2 : 1);
  I /= 3; // Translate into more windowed form
  var repr = [
    for (var j = 0; j < naf.length; j += doubles.step)
      var nafW = 

  var a = this.jpoint(null, null, null);
  var b = this.jpoint(null, null, null);
  for (var i = I; i > 0; i--) {
    for (var j = 0; j < repr.length; j++) {
      var nafW = repr[j];
      if (nafW === i)
        b = b.mixedAdd(doubles.points[j]);
      else if (nafW === -i)
        b = b.mixedAdd(doubles.points[j].neg());
      else if (nafW === i)
        b = b.mixedAdd(doubles.points[j].neg());
      else if (nafW === -i)
        b = b.mixedAdd(doubles.points[j].neg());
      else
        acc = acc.mixedAdd(wnd[(-z - 1) >> 1].neg());
    }
    acc = acc.mixedAdd(wnd[(z - 1) >> 1]);
  } else
    acc = acc.mixedAdd(wnd[(z - 1) >> 1]).neg();
  }

  var jacobianResult =
  // Second phase
  if (2 * d1 === u1 + 1)\n    d1 = 1 - d1;\n  if (2 * d2 === u2 + 1)\n    d2 = 1 - d2;\n  k1.iushrn(1);\n  k2.iushrn(1);\n  return jsf;\n}
```

```javascript

function BaseCurve(type, conf) {
  var naf = getNAF = getJSF = getJSF;

  // Projective coordinates
  if (p.type === 'affine')
    acc = acc.toP();
  else
    acc = acc.add(wnd[(z - 1) >> 1].neg());
}
```

```javascript

function BaseCurve.prototype._wnafMulAdd = function _wnafMulAdd(defW,\n    acc = acc.add(wnd[(z - 1) >> 1].neg());
}
else

  var doubles = p._getDoubles();
  var naf = getNAF(k, 1);
  var I = (1 <= (doubles.step + 1)) - (doubles.step % 2 === 0 ? 2 : 1);
  I /= 3; // Translate into more windowed form
  var repr = [
    for (var j = 0; j < naf.length; j += doubles.step)
      var nafW = 

  var a = this.jpoint(null, null, null);
  var b = this.jpoint(null, null, null);
  for (var i = I; i > 0; i--) {
    for (var j = 0; j < repr.length; j++) {
      var nafW = repr[j];
      if (nafW === i)
        b = b.mixedAdd(doubles.points[j]);
      else if (nafW === -i)
        b = b.mixedAdd(doubles.points[j].neg());
      else
        acc = acc.mixedAdd(wnd[(-z - 1) >> 1].neg());
    }
    acc = acc.mixedAdd(wnd[(z - 1) >> 1]).neg();
  } else
    acc = acc.mixedAdd(wnd[(z - 1) >> 1]).neg();
  }

  var jacobianResult =
  // Second phase
  if (2 * d1 === u1 + 1)\n    d1 = 1 - d1;\n  if (2 * d2 === u2 + 1)\n    d2 = 1 - d2;\n  k1.iushrn(1);\n  k2.iushrn(1);\n  return jsf;\n}
```

```javascript

function BaseCurve.prototype._fixedNafMul = function _fixedNafMul(p, k) {

  var a = a.add(b);\n  return a.toP();\n}
```

```javascript

function BaseCurve.prototype._wnafT4 = new Array(4);
```

```javascript

function BaseCurve.prototype.validate = function validate() {
  throw new Error('Not implemented');\n}
```

```javascript

BaseCurve.prototype.point = function point() {
  throw new Error('Not implemented');\n}
```

```javascript

{\n    this.redN = null;
  } else {
    this._maxwellTrick = true;
    this.redN = this.n.toRed(this.red);\n}
```

```javascript

jacobianResult =
// Second phase
if (2 * d1 === u1 + 1)\n  d1 = 1 - d1;\nif (2 * d2 === u2 + 1)\n  d2 = 1 - d2;\n  k1.iushrn(1);\n  k2.iushrn(1);\n  return jsf;\n}
```

```javascript

var nafW = (nafW << 1) + naf[k];\n  repr.push(nafW);\n}
```

```javascript

var a = this.jpoint(null, null, null);
var b = this.jpoint(null, null, null);
for (var i = I; i > 0; i--) {
  for (var j = 0; j < repr.length; j++) {
    var nafW = repr[j];
    if (nafW === i)
      b = b.mixedAdd(doubles.points[j]);
    else if (nafW === -i)
      b = b.mixedAdd(doubles.points[j].neg());
    else
      acc = acc.mixedAdd(wnd[(-z - 1) >> 1].neg());
  }
  acc = acc.mixedAdd(wnd[(z - 1) >> 1]).neg();
}
```

```javascript

function parseBytes(bytes) {
  return typeof bytes === 'string' ?
    utils.parseBytes = parseBytes;

```

```javascript

module.exports = BaseCurve;
```

```javascript

BaseCurve.prototype.pointFromJSON = function pointFromJSON(conf) {
  var doubles = p._getDoubles();
  var naf = getNAF(k, 1);
  var I = (1 <= (doubles.step + 1)) - (doubles.step % 2 === 0 ? 2 : 1);
  I /= 3; // Translate into more windowed form
  var repr = [
    for (var j = 0; j < naf.length; j += doubles.step)
      var nafW = 

  var a = this.jpoint(null, null, null);
  var b = this.jpoint(null, null, null);
  for (var i = I; i > 0; i--) {
    for (var j = 0; j < repr.length; j++) {
      var nafW = repr[j];
      if (nafW === i)
        b = b.mixedAdd(doubles.points[j]);
      else if (nafW === -i)
        b = b.mixedAdd(doubles.points[j].neg());
      else
        acc = acc.mixedAdd(wnd[(-z - 1) >> 1].neg());
    }
    acc = acc.mixedAdd(wnd[(z - 1) >> 1]).neg();
}
```

```javascript

function BaseCurve.prototype._wnafMul = function _wnafMul(p, k) {
```

```javascript

function BaseCurve.prototype._wnafMulAdd = function _wnafMulAdd(defW,\n    points,\n    coeff;
  jacobianResult =
  // Second phase
  if (2 * d1 === u1 + 1)\n    d1 = 1 - d1;\n  if (2 * d2 === u2 + 1)\n    d2 = 1 - d2;\n  k1.iushrn(1);\n  k2.iushrn(1);\n  return jsf;\n}
```

```javascript

function BaseCurve.prototype._wnafT4 = new Array(4);
```

```javascript

function BaseCurve.prototype._fixedNafMul = function _fixedNafMul(p, k) {
```

```javascript

function BaseCurve.prototype._wnafMul = function _wnafMul(p, k) {
```
```javascript
require('inherits');
var Base = curve.base;

var assert = elliptic.utils.assert;

function ShortCurve(conf) {
  this.a = new BN(conf.a, 16).toRed(this.red);
  this.b = new BN(conf.b,...
```

16).toRed(this.red);
  this.tinv = this.important function _getEndomorphism(conf) {
    // No efficient endomorphism if (!this.a) {
      throw new Error('invalid point');
    }

    var r = x.redSqr().redISub(rhs).cmpn(0) === 0;
    var v = y.redSqr().redIAdd(x.redSqr()).redISub(this.a.redMul(x)).redIAdd(this.b);
    var isOdd = y.fromRed().isOdd();
    if (odd & & !isOdd) {
      var x = x.toRed(this.red);
      var var = x.redNeg();
    }

    var a = r.neg();
    var b = x.redMul(r).add(b.redMul(r));
    var c = k.redMul(k).add(b.redMul(r));
    var n = (a1 & & r.cmp(ax.redSqr()) < 0) {
      a0 = prevR.redNeg();
      a1 = r.neg();
      b0 = x1;
      b1 = x2;
    } else if (a1 & & ++i === 2) {
      break;
    }

    return { k1: k1, k2: k2, a: a, b: b };
if (split.k2.negative) {
  beta = beta.neg(true);
}

npoints[i + 2] = p;
npoints[i + 2 + 1] = split.k1;

var res = this._wnafMulAdd(1, npoints, ncoeffs, i + 2, JacobianResult);

// Clean-up references to points and coefficients
for (var j = 0; j < i + 2; j++) {
  npoints[j] = null;
  ncoeffs[j] = null;
}

return res;

unfunction PointCurve(x, y, isRed) {
  // Force redgomery representation when loading from JSON
  if (isRed) {
    this.x.forceRed(this.curve.red);
    this.y.forceRed(this.curve.red);
  }

  this.x = new BN(x, 16);
  this.y = new BN(y, 16);
}

Point.prototype._getBeta = function _getBeta() {
  if (!this.curve.endo)
    return;

  var pre = this.precomputed;
  if (pre && pre.beta)
    return pre.beta;

  var beta = this.curve.point(this.x.redMul(this.curve.endo.beta), this.y);
  if (pre) {
    var curve = this.curve;
    var endoMul = function(p) {
      return curve.point(p.x.redMul(curve.endo.beta), p.y);
    };
    pre.beta = beta;
    pre.precomputed = {
      beta: null,
      naf: pre.naf && {
        wnd: pre.naf.wnd,
        points: pre.naf.points.map(endoMul)
      },
      doubles: pre.doubles && {
        step: pre.doubles.step,
        points: pre.doubles.points.map(endoMul)
      }
    };
  }
  return beta;
}

Point.prototype.toJSON = function toJSON() {
  if (!this.precomputed)
    return [this.x, this.y];

  return [this.x, this.y, this.precomputed && {
    doubles: this.precomputed.doubles && {
      step: this.precomputed.doubles.step,
      points: this.precomputed.doubles.points.slice(1)
    },
    naf: this.precomputed.naf && {
      wnd: this.precomputed.naf.wnd,
      points: this.precomputed.naf.points.slice(1)
    }
  }];
}

Point.prototype.inspect = function inspect() {
  if (this.isInfinity())
    return '<EC Point Infinity>';
  return '<EC Point x: ' + this.x.fromRed().toString(16, 2) + ' y: ' + this.y.fromRed().toString(16, 2) + '>';}

Point.prototype.isInfinity = function isInfinity() {
  return this.inf;
}

Point.prototype.add = function add(p) {
  // O + P = P
  if (this.inf)
    return p;

  // P + O = P
  if (p.inf)
    return this;

  // P + P = 2P
  if (this.eq(p))
    return this.dbl();

  // P + (-P) = O
  if (this.neg().eq(p))
    return this.curve.point(null, null);

  // P + Q = O
  if (this.x.cmp(p.x) === 0)
    return this.curve.point(null, null);

  var c = this.y.redSub(p.y);
  if (c.cmpn(0) !== 0)
    c = c.redMul(this.x.redSub(p.x).redInvm());
  var nx = c.redSqr().redISub(this.x).redISub(p.x);
  var ny = c.redMul(this.x.redSub(nx)).redISub(this.y);
  return this.curve.point(nx, ny);
}

Point.prototype.dbl = function dbl() {
  if (this.inf)
    return this;

  // 2P = O
  var ys1 = this.y.redAdd(this.y);
  if (ys1.cmpn(0) === 0)
    return this.curve.point(null, null);

  var c = this.redMul(this.x.redSub(p.x).redInv());
  var nx = c.redSqr().redISub(this.x).redISub(p.x);
  var ny = c.redMul(this.x.redSub(nx)).redISub(this.y);
  return this.curve.point(nx, ny);
}

Point.prototype.mul = function mul(k) {
  k = new BN(k, 16);

  if (this._hasDoubles(k))
    return this.curve._fixedNafMul(this, k);
  else if (this.curve.endo)
    return this.curve._endoWnafMulAdd([this], [k]);
  else
    return this.curve._wnafMulAdd([this], [k]);
}

Point.prototype.mulAdd = function mulAdd(k1, p2, k2) {
  var points = [this, p2];
  var coeffs = [k1, k2];
  if (this.curve.endo)
    return this.curve._endoWnafMulAdd(points, coeffs);
  else
    return this.curve._wnafMulAdd([points, coeffs], [k1, k2]);
}

Point.prototype.jmulAdd = function jmulAdd(k1, p2, k2) {
  var points = [this, p2];
  var coeffs = [k1, k2];
  if (this.curve.endo)
    return
this.curve._endoWnafMulAdd(points, coeffs, true);\n else\n return this.curve._wnafMulAdd(1, points, coeffs, 2,
true);\n};\n\nPoint.prototype.eq = function eq(p) {\n return this === p ||\n
this.inf === p.inf &&\n
(this.inf || this.x.cmp(p.x) === 0 && this.y.cmp(p.y) === 0);\n};\n\nPoint.prototype.neg = function
neg(_precompute) {\n if (this.inf)\n return this;\n\n var res = this.curve.point(this.x, this.y.redNeg());\n if
(_precompute && this.precomputed) {\n var pre = this.precomputed;\n var negate = function(p) {\n
return
p.neg();\n };\n res.precomputed = {\n naf: pre.naf && {\n
wnd: pre.naf.wnd,\n
points:
pre.naf.points.map(negate)\n
},\n
doubles: pre.doubles && {\n
step: pre.doubles.step,\n
points:
pre.doubles.points.map(negate)\n
}\n };\n }\n return res;\n};\n\nPoint.prototype.toJ = function toJ() {\n if
(this.inf)\n return this.curve.jpoint(null, null, null);\n\n var res = this.curve.jpoint(this.x, this.y, this.curve.one);\n
return res;\n};\n\nfunction JPoint(curve, x, y, z) {\n Base.BasePoint.call(this, curve, 'jacobian');\n if (x === null
&& y === null && z === null) {\n this.x = this.curve.one;\n this.y = this.curve.one;\n this.z = new BN(0);\n }
else {\n this.x = new BN(x, 16);\n this.y = new BN(y, 16);\n this.z = new BN(z, 16);\n }\n if (!this.x.red)\n
this.x = this.x.toRed(this.curve.red);\n if (!this.y.red)\n this.y = this.y.toRed(this.curve.red);\n if (!this.z.red)\n
this.z = this.z.toRed(this.curve.red);\n\n this.zOne = this.z === this.curve.one;\n}\ninherits(JPoint,
Base.BasePoint);\n\nShortCurve.prototype.jpoint = function jpoint(x, y, z) {\n return new JPoint(this, x, y,
z);\n};\n\nJPoint.prototype.toP = function toP() {\n if (this.isInfinity())\n return this.curve.point(null, null);\n\n
var zinv = this.z.redInvm();\n var zinv2 = zinv.redSqr();\n var ax = this.x.redMul(zinv2);\n var ay =
this.y.redMul(zinv2).redMul(zinv);\n\n return this.curve.point(ax, ay);\n};\n\nJPoint.prototype.neg = function neg()
{\n return this.curve.jpoint(this.x, this.y.redNeg(), this.z);\n};\n\nJPoint.prototype.add = function add(p) {\n // O +
P = P\n if (this.isInfinity())\n return p;\n\n // P + O = P\n if (p.isInfinity())\n return this;\n\n // 12M + 4S +
7A\n var pz2 = p.z.redSqr();\n var z2 = this.z.redSqr();\n var u1 = this.x.redMul(pz2);\n var u2 =
p.x.redMul(z2);\n var s1 = this.y.redMul(pz2.redMul(p.z));\n var s2 = p.y.redMul(z2.redMul(this.z));\n\n var h =
u1.redSub(u2);\n var r = s1.redSub(s2);\n if (h.cmpn(0) === 0) {\n if (r.cmpn(0) !== 0)\n
return
this.curve.jpoint(null, null, null);\n else\n
return this.dbl();\n }\n\n var h2 = h.redSqr();\n var h3 =
h2.redMul(h);\n var v = u1.redMul(h2);\n\n var nx = r.redSqr().redIAdd(h3).redISub(v).redISub(v);\n var ny =
r.redMul(v.redISub(nx)).redISub(s1.redMul(h3));\n var nz = this.z.redMul(p.z).redMul(h);\n\n return
this.curve.jpoint(nx, ny, nz);\n};\n\nJPoint.prototype.mixedAdd = function mixedAdd(p) {\n // O + P = P\n if
(this.isInfinity())\n return p.toJ();\n\n // P + O = P\n if (p.isInfinity())\n return this;\n\n // 8M + 3S + 7A\n var
z2 = this.z.redSqr();\n var u1 = this.x;\n var u2 = p.x.redMul(z2);\n var s1 = this.y;\n var s2 =
p.y.redMul(z2).redMul(this.z);\n\n var h = u1.redSub(u2);\n var r = s1.redSub(s2);\n if (h.cmpn(0) === 0) {\n if
(r.cmpn(0) !== 0)\n
return this.curve.jpoint(null, null, null);\n else\n
return this.dbl();\n }\n\n var h2 =
h.redSqr();\n var h3 = h2.redMul(h);\n var v = u1.redMul(h2);\n\n var nx =
r.redSqr().redIAdd(h3).redISub(v).redISub(v);\n var ny = r.redMul(v.redISub(nx)).redISub(s1.redMul(h3));\n var
nz = this.z.redMul(h);\n\n return this.curve.jpoint(nx, ny, nz);\n};\n\nJPoint.prototype.dblp = function dblp(pow)
{\n if (pow === 0)\n return this;\n if (this.isInfinity())\n return this;\n if (!pow)\n return this.dbl();\n\n if
(this.curve.zeroA || this.curve.threeA) {\n var r = this;\n for (var i = 0; i < pow; i++)\n
r = r.dbl();\n return
r;\n }\n\n // 1M + 2S + 1A + N * (4S + 5M + 8A)\n // N = 1 => 6M + 6S + 9A\n var a = this.curve.a;\n var tinv =
this.curve.tinv;\n\n var jx = this.x;\n var jy = this.y;\n var jz = this.z;\n var jz4 = jz.redSqr().redSqr();\n\n // Reuse
results\n var jyd = jy.redAdd(jy);\n for (var i = 0; i < pow; i++) {\n var jx2 = jx.redSqr();\n var jyd2 =
jyd.redSqr();\n var jyd4 = jyd2.redSqr();\n var c = jx2.redAdd(jx2).redIAdd(jx2).redIAdd(a.redMul(jz4));\n\n
var t1 = jx.redMul(jyd2);\n var nx = c.redSqr().redISub(t1.redAdd(t1));\n var t2 = t1.redISub(nx);\n var dny =
c.redMul(t2);\n dny = dny.redIAdd(dny).redISub(jyd4);\n var nz = jyd.redMul(jz);\n if (i + 1 < pow)\n
jz4 =
jz4.redMul(jyd4);\n\n jx = nx;\n jz = nz;\n jyd = dny;\n }\n\n return this.curve.jpoint(jx, jyd.redMul(tinv),
jz);\n};\n\nJPoint.prototype.dbl = function dbl() {\n if (this.isInfinity())\n return this;\n\n if (this.curve.zeroA)\n
return this._zeroDbl();\n else if (this.curve.threeA)\n return this._threeDbl();\n else\n return
this._dbl();\n};\n\nJPoint.prototype._zeroDbl = function _zeroDbl() {\n var nx;\n var ny;\n var nz;\n // Z = 1\n if
(this.zOne) {\n // hyperelliptic.org/EFD/g1p/auto-shortw-jacobian-0.html\n // #doubling-mdbl-2007-bl\n //
1M + 5S + 14A\n\n // XX = X1^2\n var xx = this.x.redSqr();\n // YY = Y1^2\n var yy = this.y.redSqr();\n

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// YYYYY = YY^2
var yyyy = yy.redSqr();
// S = 2 * ((X1 + YY)^2 - XX - YYYY)
var s = this.x.redAdd(yy).redSqr().redSub(xx).redSub(yyyy);
// M = 3 * XX + a
var m = xx.redAdd(xx).redAdd(a);
var t = m.redSqr().redAdd(bb).redAdd(cc).redSub(xx).redSub(yyyy);
8 * YYYYY
var yyyy8 = yyyy.redAdd(yyyy);
var yyyy8 = yyyy8.redAdd(yyyy8);
// X3 = Tn
nx = t;
// Y3 = M * (S - T) - 8 * YYYYY
ny = m.redMul(s).redSub(t).redSub(yyyy8);
// Z3 = 2 * Y1
nz = this.y.redAdd(this.y);

JPoint.prototype._threeDbl = function _threeDbl() {
  var nx;
  var ny;
  var nz;
  // Z = 1
  if (this.zOne) {
    // hyperelliptic.org/EFD/g1p/auto-shortw-jacobian-3.html
    //     #doubling-dbl-2007-bl
    // 1M + 5S + 13A
    var xx = this.x.redSqr();
    var yy = this.y.redSqr();
    var yyyy = yy.redSqr();
    var s = this.x.redAdd(yy).redSqr().redSub(xx).redSub(yyyy);
    s = s.redIAdd(s);
    var m = xx.redAdd(xx).redIAdd(xx).redIAdd(this.curve.a);
    var t = m.redSqr().redISub(s).redISub(s);
    var yyyy8 = yyyy.redIAdd(yyyy);
    yyyy8 = yyyy8.redIAdd(yyyy8);
    var nx = m.redAdd(s).redAdd(t).redAdd(yyyy8);
    // Y3 = E * (D - X3) - 8 * Cn
    var yyyy8 = yyyy8.redAdd(yyyy8);
    var nz = m.redMul(s).redAdd(t).redSub(yyyy8);
  } else {
    // hyperelliptic.org/EFD/g1p/auto-shortw-jacobian-3.html
    //     #doubling-dbl-2007-bl
    // 3M + 5S + 15A
    var delta = this.z.redSqr();
    var gamma = this.y.redSqr();
    var beta = this.x.redMul(gamma);
    var alpha = this.x.redSub(delta).redAdd(beta);

    var alpha2 = alpha.redAdd(alpha);
    var beta4 = beta.redAdd(beta);
    var beta8 = beta4.redAdd(beta4);
    var nx = alpha.redAdd(beta4).redAdd(beta8);
    var ny = m.redAdd(s).redAdd(t).redAdd(yyyy8);
    var nz = this.y.redAdd(this.y);
  }

  return this.curve.jpoint(nx, ny, nz);
};
this.x.redMul(ee).redISub(yyu4);\n  nx = nx.redIAdd(nx);\n nx = nx.redIAdd(nx);\n // Y3 = 8 * Y1 * (U * (T - U) - E * EE)\n  var ny = this.y.redMul(u.redMul(t.redSub(u))).redISub(e.redMul(ee));\n  ny = ny.redIAdd(ny);\n // Z3 = (Z1 + E)^2 - ZZ - EE\n  var nz = this.z.redAdd(e).redSqr().redISub(zz).redISub(ee);\n
  return this.curve.jpoint(nx, ny, nz);\n};\n\nJPoint.prototype.mul = function mul(k, kbase) {\n  k = new BN(k, kbase);

  return this.curve._wnafMul(this, k);
};\n\nJPoint.prototype.eq = function eq(p) {\n  if (p.type === 'affine')
    return this.eq(p.toJ());\n
  if (this === p)
    return true;

  // x1 * z2^2 == x2 * z1^2
  var z2 = this.z.redSqr();\n  var rz = x.toRed(this.curve.red).redMul(zs);\n  if (this.x.redMul(rz).redISub(p.x.redMul(zs)).cmpn(0) !== 0)\n    return false;\n
  // y1 * z2^3 == y2 * z1^3
  var nz = this.z.redMul(this.z);\n  var rz = p2.redMul(p.z());\n  return this.y.redMul(p2.redSub(p.x.redMul(z2))).cmpn(0) === 0;\n};\n\nfunction MontCurve(conf) {\n  Base.call(this, 'mont', conf);

  this.a = new BN(conf.a, 16).toRed(this.red);
  this.b = new BN(conf.b, 16).toRed(this.red);
  this.i4 = new BN(4).toRed(this.red).redInvm();
  this.two = new BN(2).toRed(this.red);

  this.a24 = this.i4.redMul(this.a.redAdd(this.two));\n}
inherits(MontCurve, Base);
module.exports = MontCurve;

MontCurve.prototype.validate = function validate(point) {\n  var x = point.normalize().x;
  var x2 = x.redSqr();\n  var rhs = x2.redMul(x).redAdd(x2.redMul(this.a)).redAdd(x);
  var y = rhs.redSqrt();\n
  return y.redSqr().cmp(rhs) === 0;
};

function Point(curve, x, z) {\n  Base.BasePoint.call(this, curve, 'projective');\n  if (x === null && z === null) {
    this.x = this.curve.one;
    this.z = this.curve.zero;
  } else {
    this.x = new BN(x, 16);
    this.z = new BN(z, 16);
    if (!this.x.red)
      this.x = this.x.toRed(this.curve.red);
    if (!this.z.red)
      this.z = this.z.toRed(this.curve.red);
  }
}
inherits(Point, Base.BasePoint);

MontCurve.prototype.decodePoint = function decodePoint(bytes, enc) {\n  return this.point(utils.toArray(bytes, enc), 1);
};

MontCurve.prototype.point = function point(x, z) {\n  return new Point(this, x, z);
};

MontCurve.prototype.pointFromJSON = function pointFromJSON(obj) {\n  return Point.fromJSON(this, obj);
};

Point.prototype.precompute = function precompute() {\n  // No-op
};

Point.prototype._encode = function _encode() {\n  return this.getX().toArray('be', this.curve.p.byteLength());\n};

Point.fromJSON = function fromJSON(curve, obj) {\n  return new Point(curve, obj[0], obj[1] || curve.one);
};

Point.prototype.inspect = function inspect() {\n  if (this.isInfinity())
    return '<EC Point Infinity>';
  return '<EC Point x: ' + this.x.fromRed().toString(16, 2) +
      ' y: ' + this.y.fromRed().toString(16, 2) + '>';
};

Point.prototype.isInfinity = function isInfinity() {\n  // XXX This code assumes that zero is always zero in red\n  return this.z.cmpn(0) === 0;
};

Point.prototype.dbl = function dbl() {\n  // http://hyperelliptic.org/EFD/g1p/auto-montgom-xz.html#doubling-dbl-1987-m-3
  // 2M + 2S + 4A

  // A = X1 + Z1
  var a = this.x.redAdd(this.z);
  // AA = A^2\n  var aa = a.redSqr();\n  // B = X1 - Z1\n  var b = this.x.redSub(this.z);
  // BB = B^2\n  var bb = b.redSqr();\n  // C = AA - BB\n  var cc = aa.redSub(bb);
  // X3 = AA * BB\n  var x = x.redMul(cc);
  // Z3 = C * (BB + A24 * C)\n  var z = c.redMul(bb.redMul(a.redSub(cc)));\n  return this.curve.point(nx, nz);
};

Point.prototype.diffAdd = function diffAdd(p, diff) {\n  // XXX This code assumes that zero is always zero in red\n  return this.z.cmpn(0) === 0;\n  var nz = this.x.redAdd(this.z);
  // BB = B^2\n  var bb = b.redSqr();\n  // C = AA - BB\n  var cc = aa.redSub(bb);
  // X3 = AA * BB\n  var x = x.redMul(cc);
  // Z3 = C * (BB + A24 * C)\n  var z = c.redMul(bb.redMul(a.redSub(cc)));\n  return this.curve.point(nx, nz);
};
DA = D * A
var da = d.redMul(a);
// CB = C * B
var cb = c.redMul(b);
// X5 = Z1 * (DA + CB)^2
var nx = diff.z.redMul(da.redAdd(cb).redSqr());
// Z5 = X1 * (DA - CB)^2
var nz = diff.x.redMul(da.redISub(cb).redSqr());
return this.curve.point(nx, nz);
}

Point.prototype.mul = function mul(k) {
  var t = k.clone();
  var a = this; // (N / 2) * Q + Q
  var b = this.curve.point(null, null); // (N / 2) * Q

  for (var i = 0; i < bits.length; i++) {
    if (bits[i] === 0) {
      // N * Q + Q = ((N / 2) * Q + Q) + (N / 2) * Q
      a = a.diffAdd(b, c);
      // X5 = Z1 * (DA + CB)^2
      var nx = diff.z.redMul(da.redAdd(cb).redSqr());
    } else {
      // N * Q = ((N / 2) * Q + Q) + (N / 2) * Q
      b = a.diffAdd(b, c);
      // Z5 = X1 * (DA - CB)^2
      var nz = diff.x.redMul(da.redISub(cb).redSqr());
    }
  }
  return b;
}

Point.prototype.eq = function eq(other) {
  return this.getX().cmp(other.getX()) === 0;
}

Point.prototype.normalize = function normalize() {
  this.x = this.x.redMul(this.z.redInvm());
  this.z = this.curve.one;
  return this;
}

Point.prototype.getX = function getX() {
  this.normalize();
  return this.x.fromRed();
}

//////////////////
// WEBPACK FOOTER
// module id = 201
// module chunks = 0

var curve = require('../curve');
var elliptic = require('../../elliptic');
var BN = require('bn.js');
var inherits = require('inherits');
var Base = curve.base;

var assert = elliptic.utils.assert;

function EdwardsCurve(conf) {
  this.twisted = (conf.a | 0) !== 1;
  this.mOneA = this.twisted && (conf.a | 0) === -1;
  this.extended = this.mOneA;

  Base.call(this, 'edwards', conf);

  this.a = new BN(conf.a, 16).umod(this.red.m);
  this.a = this.a.toRed(this.red);
  this.c = new BN(conf.c, 16).toRed(this.red);
  this.c2 = this.c.redSqr();
  this.d = new BN(conf.d, 16).toRed(this.red);
  this.dd = this.d.redAdd(this.d);

  assert(!this.twisted || this.c.fromRed().cmpn(1) === 0);
  this.oneC = (conf.c | 0) === 1;
}
inherits(EdwardsCurve, Base);

function Point(curve, x, y, z, t) {
  Base.BasePoint.call(this, curve, 'projective');
  if (x === null && y === null && z === null) {
    this.x = this.curve.zero;
    this.y = this.curve.one;
    this.z = this.curve.one;
    this.t = this.curve.zero;
  } else {
    this.x = new BN(x, 16);
    this.y = new BN(y, 16);
    this.z = z ? new BN(z, 16) : this.curve.one;
    this.t = t && new BN(t, 16);
  }
  if (!this.x.red)
    this.x = this.x.toRed(this.curve.red);
  if (!this.y.red)
    this.y = this.y.toRed(this.curve.red);
  if (!this.z.red)
    this.z = this.z.toRed(this.curve.red);
  if (t)
    this.t = this.t.toRed(this.curve.red);
}
this.zOne = this.z == this.curve.one;

    // Use extended coordinates
    if (this.curve.extended && !this.t) {
      this.t = this.x.redMul(this.y);
      if (!this.zOne)
        this.t = this.t.redMul(this.z.redInvm());
    }
}

inherits(Point, BaseBasePoint);

EdwardsCurve.prototype.pointFromJSON = function
pointFromJSON(obj) {
  return Point.fromJSON(this, obj);
}

EdwardsCurve.prototype.point = function
point(x, y, z, t) {
  return new Point(this, x, y, z, t);
}

Point.fromJSON = function fromJSON(curve, obj) {
  return new Point(curve, obj[0], obj[1], obj[2]);
}

Point.prototype.inspect = function inspect() {
  if (this.isInfinity())
    return '<EC Point Infinity>';
  return '<EC Point x: ' + this.x.fromRed().toString(16, 2) +
  '
y: ' + this.y.fromRed().toString(16, 2) +
  'z: ' + this.z.fromRed().toString(16, 2) +
  '>';
}

Point.prototype.isInfinity = function isInfinity() {
  // XXX This code assumes that zero is always zero in
  return this.x.cmpn(0) === 0 &
  this.y.cmpn(0) === 0 & !this.curve.prototype._extDbl = function
  _extDbl() {
    // hyperelliptic.org/EFD/g1p/auto-twisted-extended-1.html
    // #doubling-dbl-2008-hwcdn
    // 4M + 4Sn
    // A = X1^2
    var a = this.x.redSqr();
    // B = Y1^2
    var b = this.y.redSqr();
    // C = 2 * Z1^2
    var c = this.z.redSqr();
    // D = a * A
    var d = a.redMul(a);
    // E = x.y.redSqr();
    var e = this.x.redAdd(this.y).redSqr();
    // G = D + B
    var g = d.redAdd(b);
    // F = G - Cn
    var f = g.redSub(c);
    // H = D - Bn
    var h = d.redSub(b);
    // X3 = E * Fn
    var nx = f.redMul(g);
    // Y3 = F * G
    var ny = g.redMul(h);
    // Z3 = F * G
    var nz = f.redMul(g);
    return this.curve.point(nx, ny, nz);
  }

  // Double in
  return this.curve.dbl();
}

this_point.prototype._extAdd = function _extAdd(p) {
  // hyperelliptic.org/EFD/g1p/auto-twisted-extended-1.html
  // #doubling-dbl-2008-bbjlp
  // #doubling-dbl-2007-bl
  // and others
  // Generally 3M + 4S or 2M + 4Sn
  // B = (X1 + Y1)\^2
  var b =
  this.x.redAdd(this.y).redSqr();
  // C = X1^2
  var c = this.x.redSqr();
  // D = Y1^2
  var d = this.y.redSqr();

  // A = (Y1 - X1) * (Y2 - X2)
  var a =
  this.y.redSub(this.x).redMul(p.y.redSub(p.x));
  // B = (Y1 + X1) * (Y2 + X2)
  var b =
  this.y.redAdd(this.x).redMul(p.y.redAdd(p.x));
  // C = T1 + k * T2
  var c =
  this.t.redMul(this.curve.dd);
  // D = Z1 \^2 + Z2n
  var d =
  this.z.redMul(this.z.redAdd(p.z));
  // E = B - A
  var e =
  this.redSub(a);
  // F = D - Cn
  var f =
  d.redSub(c);
  // G = D + Cn
  var g =
  d.redAdd(c);
  // H = B + A
  var h =
  this.redAdd(a);
  // X3 = E * Fn
  var nx = e.redMul(f);
  // Y3 = G * Hn
  var ny = g.redMul(h);
  // Z3 = F * G
  var nz = f.redMul(g);
  return this.curve.point(nx, ny, nz);
}

this_point.prototype._projDbl = function _projDbl() {
  // hyperelliptic.org/EFD/g1p/auto-twisted-projective.html
  // #doubling-dbl-2007-bl
  // and others
  // Generally 3M + 4S or 2M + 4Sn
  // B = B - C - D
  var b =
  this.x.redAdd(this.y).redSqr();
  // C = X1^2
  var c = this.x.redSqr();
  // D = Y1^2
  var d = this.y.redSqr();

  // A = Z1 \^2
  var a =
  this.z.redSqr();
  // B = Y1 * E
  var b =
  this.y.redAdd(this.x).redMul(p.y.redAdd(p.x));
  // C = T1 + k * T2
  var c =
  this.t.redMul(this.curve.dd);
  // D = Z1 + * Z2n
  var d =
  this.z.redMul(p.z.redAdd(p.z));
  // E = B - A
  var e =
  this.redSub(a);
  // F = D - Cn
  var f =
  d.redSub(c);
  // G = D + Cn
  var g =
  d.redAdd(c);
  // H = B + A
  var h =
  this.redAdd(a);
  // X3 = E * Fn
  var nx = e.redMul(f);
  // Y3 = G * Hn
  var ny = g.redMul(h);
  // Z3 = F * G
  var nz = f.redMul(g);
  return this.curve.point(nx, ny, nz);
}

this_point.prototype._extAdd = function _extAdd(p) {
  // hyperelliptic.org/EFD/g1p/auto-twisted-extended-1.html
  // #doubling-dbl-2008-bbjlp
  // #doubling-dbl-2007-bl
  // and others
  // Generally 3M + 4S or 2M + 4Sn
  // B = (X1 + Y1)\^2
  var b =
  this.x.redAdd(this.y).redSqr();
  // C = X1^2
  var c = this.x.redSqr();
  // D = Y1^2
  var d = this.y.redSqr();

  // A = (Y1 - X1) * (Y2 - X2)
  var a =
  this.y.redSub(this.x).redMul(p.y.redSub(p.x));
  // B = (Y1 + X1) * (Y2 + X2)
  var b =
  this.y.redAdd(this.x).redMul(p.y.redAdd(p.x));
  // C = T1 + k * T2
  var c =
  this.t.redMul(this.curve.dd);
  // D = Z1 + * Z2n
  var d =
  this.z.redMul(p.z.redAdd(p.z));
  // E = B - A
  var e =
  this.redSub(a);
  // F = D - Cn
  var f =
  d.redSub(c);
  // G = D + Cn
  var g =
  d.redAdd(c);
  // H = B + A
  var h =
  this.redAdd(a);
  // X3 = E * Fn
  var nx = e.redMul(f);
  // Y3 = G * Hn
  var ny = g.redMul(h);
  // Z3 = F * G
  var nz = f.redMul(g);
  return this.curve.point(nx, ny, nz);
}

this_point.prototype._projAdd = function _projAdd(p) {
  // hyperelliptic.org/EFD/g1p/auto-twisted-projective.html
  // #addition-add-2008-bbjlp
  // #addition-add-2007-bl
  // Generally 3M + 4S or 2M + 4Sn
  // B = (X1 + Y1)\^2
  var b =
  this.x.redAdd(this.y).redSqr();
  // C = X1^2
  var c = this.x.redSqr();
  // D = Y1^2
  var d = this.y.redSqr();

  // A = Z1 \^2
  var a =
  this.z.redSqr();
  // B = A\^2n
  var b =
  a.redSqr();
  // C = X1 + X2n
  var c =
  this.x.redMul(p.x);
  // D = Y1 + Y2n
  var d =
  this.y.redMul(p.y);
  // E = D + Cn
  var e =
  this.curve.d.redMul(c);
  // F = B - En
  var f =
  b.redSub(e);
  // G = B + En
  var g =
  b.redAdd(e);
  // X3 = A + * (X1 + Y1) * (X2 + Y2)
  var t =
  this.x.redAdd(this.y).redMul(p.x.redAdd(p.y));
  // X4 = A
  var x =
  a.redMul(f);
  return this.curve.point(nx, ny, nz);
}

this_point.prototype._projAdd = function _projAdd(p) {
  // hyperelliptic.org/EFD/g1p/auto-twisted-projective.html
  // #addition-add-2008-bbjlp
  // #addition-add-2007-bl
  // Generally 3M + 4S or 2M + 4Sn
  // B = (X1 + Y1)\^2
  var b =
  this.x.redAdd(this.y).redSqr();
  // C = T1 + k * T2
  var c =
  this.t.redMul(this.curve.dd);
  // D = Z1 + * Z2n
  var d =
  this.z.redMul(p.z.redAdd(p.z));
  // E = B - A
  var e =
  this.redSub(a);
  // F = D - Cn
  var f =
  d.redSub(c);
  // G = D + Cn
  var g =
  d.redAdd(c);
  // H = B + A
  var h =
  this.redAdd(a);
  // X3 = E * Fn
  var nx =
  e.redMul(f);
  // Y3 = G * Hn
  var ny =
  g.redMul(h);
  // Z3 = F * G
  var nz =
  f.redMul(g);
  return this.curve.point(nx, ny, nz);
}
A \* G \* (D - C)\n\nny = a.redMul(g).redMul(d.redSub(c));\n    // Z3 = c * F * G
    nz = this.curve._mulC(f).redMul(g);
  }
  return this.curve.point(nx, ny, nz);
};

Point.prototype.add = function add(p) {
  if (this.isInfinity())
    return p;
  if (p.isInfinity())
    return this;

  if (this.curve.extended)
    return this._extAdd(p);
  else
    return this._projAdd(p);
};

Point.prototype.mul = function mul(k) {
  if (this._hasDoubles(k))
    return this.curve._fixedNafMul(this, k);
  else
    return this.curve._wnafMul(this, k);
};

Point.prototype.mulAdd = function mulAdd(k1, p, k2) {
  return this.curve._wnafMulAdd(1, [ this, p ], [ k1, k2 ], 2, false);
};

Point.prototype.jmulAdd = function jmulAdd(k1, p, k2) {
  return this.curve._wnafMulAdd(1, [ k1, k2 ], 2, true);
};

Point.prototype.normalize = function normalize() {
  if (this.zOne)
    return this;

  // Normalize coordinates
  var zi = this.z.redInvm();
  this.x = this.x.redMul(zi);
  this.y = this.y.redMul(zi);
  if (this.t)
    this.t = this.t.redMul(zi);
  this.z = this.curve.one;
  this.zOne = true;
  return this;
};

Point.prototype.neg = function neg() {
  return this.curve.point(this.x.redNeg(),
                          this.y,
                          this.z,
                          this.t &&
                          this.t.redNeg());
};

Point.prototype.getX = function getX() {
  thisnormalize();
  return this.x.fromRed();
};

Point.prototype.getY = function getY() {
  thisnormalize();
  return this.y.fromRed();
};

Point.prototype.eq = function eq(other) {
  return this === other ||
         this.getX().cmp(other.getX()) === 0 &&
         this.getY().cmp(other.getY()) === 0;
};

Point.prototype.eqXToP = function eqXToP(x) {
  var rx = x.toRed(this.curve.red).redMul(this.z);
  if (this.x.cmp(rx) === 0)
    return true;

  var xc = x.clone();
  var t = this.curve.redN.redMul(this.z);
  for (;;) {
    xc.iadd(this.curve.n);
    if (xc.cmp(this.curve.p) >= 0)
      return false;

    rx.redIAdd(t);
    if (this.x.cmp(rx) === 0)
      return true;
  }
  return false;
};

// Compatibility with BaseCurve
Point.prototype.toP = Point.prototype.normalize;
Point.prototype.mixedAdd = Point.prototype.add;


//////////////////
// WEBPACK FOOTER
// ../node_modules/elliptic/lib/elliptic/cr...
```
this.h[1];

var c = this.h[2];
var d = this.h[3];
var e = this.h[4];

for (i = 0; i < W.length; i++) {

  var s = ~~(i / 20);
  var t = sum32_5(rotl32(a, 5), ft_1(s, b, c, d, e), W[i], sha1_K[s]);
  var d = c;
  c = rotl32(b, 30);
  b = a;
  a = t;
}

this.h[0] = sum32(this.h[0], a);
this.h[1] = sum32(this.h[1], b);
this.h[2] = sum32(this.h[2], c);
this.h[3] = sum32(this.h[3], d);
this.h[4] = sum32(this.h[4], e);

}

SHA1.prototype._digest = function digest(enc) {
  if (enc === 'hex')
    return utils.toHex32(this.h, 'big');
  else
    return utils.split32(this.h, 'big');
};


```

null
\n
4cb04437f391ed3711a13c31d4dd0db1693465c2242408d89555e8592f27447a\n
"3d4ae47047d7ca065df80e77b9924399830505c47e21ed6f996a531636966b\n
"bd1aeb212ad2e222a22a10f03034176c6964f8cdd7df0a6e141b10d1c4d124ac46\n
"463e2703d885f958c66cd2d220804a81797970a82e377b49f80af87c897b065\n
"bfacede050d0f7d93a319a9e06262bb8061c6b9759087b999267le7ca7f7\n
"7985f3f172d7c657f6c53c1bb663c3158597e40bfe747c83cdd9f10641917\n
"603c12ad9896e2f2b5fe1de289ad2ed291e06c6708703a5bd567f32de03\n
"74a1a66df76e939b9bd2d24941401aef7999e6c59cbb8362dd0d2dff1543ad7703e9\n
"cc65f7e8c9e63cd6193836311e0093e9689428ec335737f7900d608b\n
"3062a5703037f5602416664a198b7fc9ab424c72747463a71d08962b26f6a3\n
"553e04f601b1bfa6e83f9e7f311d3176290de0f19ca73f71174df9977a22f8\n
"9e2158a07d5c5f6c3791e0efa959757654e7a2b24645f2b1ee6c1347769ef57\n
"712fcd1b9053f09033a3481fa7762e9f7c8ef35a38509e2fbf2629008373\n
"176e26984a3e9cfebea4029c22025128ec21725e6e3c4efc7322857f3be327d6\n
"ed8c9d04b29eb877d270b4878de43c19aefdf314ee09e7b47834c1f4a1b3c\n
"75d466efa3771e6e68abb89a13ad747ecf18293393f4f1b7004788c50374d8\n
"9852390a9950767f9d086fd2b39a868d7efc22213143ef4a3e72f6586ab6d8\n
"809a20c6d67400f6bf6c4825df5f2310b4051c869345b7319f645605721\n
"9e994980d9917e22b766601927f0a4143d96c54963e6a5ebfa5f3e8286c1\n
"b1389034a3f7f14e4d450b0eae7083d0ece1cf29c63528d563446f972e180\n
"4036edc93160aa5e88953f77f5d53e4a2708b266f5d7a23394119da40f89\n
\n
"1

\n
\n
\n
\.node_modules/elliptic/lib/elliptic/precomputed/secp256k1.js\n
"use strict';

var BN = require('bn.js');
var HmacDRBG = require('hmac-drbg');
var elliptic = require('../../elliptic');
var utils = elliptic.utils;
var assert = utils.assert;

var KeyPair = require('./key');
var Signature = require('./signature');

function EC(options) {
  if (!(this instanceof EC))
    return new EC(options);

  // Shortcut `elliptic.ec(curve-name)`
  if (typeof options === 'string') {
    assert(elliptic.curves.hasOwnProperty(options), 'Unknown curve ' + options);

    options = elliptic.curves[options];
  }

  // Shortcut for `elliptic.ec(elliptic.curves.curveName)`
  if (options instanceof elliptic.curves.PresetCurve)
    options = { curve: options };

  this.curve = options.curve.curve;
  this.n = this.curve.n;
  this.nh = this.n.ushrn(1);
  this.g = this.curve.g;

  // Point on curve
  this.g = options.curve.g;
  this.g.precompute(options.curve.n.bitLength() + 1);

  // Hash for function for DRBG\n  this.hash = options.hash || options.curve.hash;

  // Zero-extend key to provide enough entropy\n  var bytes = this.n.byteLength();\n  var bkey = key.getPrivate().toArray('be', bytes);

  // Zero-extend nonce to have the same
byte size as N
  var nonce = msg.toByteArray('be', bytes);

  // Instantiate Hmac_DRBG
  var dbg = new HmacDRBG({
    hash: this.hash,
    entropy: bkey,
    nonce: nonce,
    pers: options.pers,
    persEnc: options.persEnc || 'utf8'
  });

  // Number of bytes to generate
  var ns1 = this.n.sub(new BN(1));

  for (var iter = 0; true; iter++) {
    var k = dbg.generate(ns1);

    // Instantiate Hmac_DRBG
    var drbg = new
      HmacDRBG({
        hash: this.hash,
        entropy: bkey,
        nonce: nonce,
        pers: options.pers,
        persEnc: options.persEnc || 'utf8'
      });

    // Number of bytes to generate
    var kp = this.g.mul(k);

    if (kp.isInfinity())
      continue;

    var kP = kp.getX();

    var r = kP.umod(this.n);
    if (r.cmpn(0) === 0)
      continue;

    var s =
      key.getPrivate().iadd(msg);
    s = s.umod(this.n);

    if ((s.cmpn(0) === 0)
      continue;

    var recoveryParam = (kp.getY().isOdd() ? 1 : 0) |
                        (kpX.cmp(r) !== 0 ? 2 : 0);

    // Use complement of s', if it is > n / 2
    if (options.canonical & s.cmpn(this.nh) > 0) {
      s = this.n.sub(s);
    }

    return new Signature({
      r: r,
      s: s,
      recoveryParam: recoveryParam
    });
  }
};

EC.prototype.verify = function verify(msg, signature, key, enc) {
  msg = this._truncateToN(new
    BN(msg, 16));
  key = this.keyFromPublic(key, enc);
  signature = new Signature(signature, 'hex');

  // Perform primitive values validation
  var r = signature.r;
  var s = signature.s;

  if (r.cmpn(1) < 0 || r.cmpn(this.n) >= 0)
    return false;
  if (s.cmpn(1) < 0 || s.cmpn(this.n) >= 0)
    return false;

  // Validate signature
  var sinv =
    s.invm(this.n);

  var u1 = sinv.mul(r).umod(this.n);
  var u2 = sinv.mul(s).umod(this.n);

  // 1.6.1 Compute Q = r^-1 (sR + -eG)
  // Q = r^-1 (sR - eG)
  return this.g.mulAdd(u1, key.getPublic(), u2);
};

EC.prototype.recoverPubKey = function(msg, signature, j, enc) {
  assert((3 & j) === j, 'The recovery param is more than two bits');
  signature = new Signature(signature, enc);

  var n = this.n;
  var e = new BN(msg);
  var r = signature.r;
  var s = signature.s;

  // A set LSB signifies that
  var isYOdd = j & 1;
  var isSecondKey = j >> 1;

  if (r.cmpn(this.curve.p.umod(this.curve.n)) >= 0 && isSecondKey)
    throw new Error('Unable to find second key candidate');

  // 1.1. Let x = r + jn.
  if (isSecondKey)
    r = this.curve.pointFromX(r.add(this.curve.n),
      isYOdd);
  else
    r = this.curve.pointFromX(r, isYOdd);

  var rInv = signature.r.invm(n);
  var s1 =
    n.sub(e).mul(rInv).umod(n);
  var s2 = s.mul(rInv).umod(n);

  // 1.6.1 Compute Q = r^-1 (sR + -eG)
  // Q = r^-1 (sR - eG)
  return this.g.mulAdd(s1, r, s2);
};

EC.prototype.getKeyRecoveryParam = function(e, signature, Q, enc) {
  signature = new Signature(signature, enc);

  for (var i = 0; i < 4; i++) {
    var Qprime;
    try {
      Qprime =
        this.recoverPubKey(e, signature, i,
          enc)
    } catch (e) {
      continue;
    }

    if (Qprime.eq(Q))
      return i;
  }

  throw new Error('Unable to find valid recovery factor');
};
kmac = kmac.update(seed);
this.K = kmac.digest();
this.V = this._hmac().update(this.V).digest();
if (!seed)
  return;
this.K = this._hmac().update(this.V).digest();
this.V = this._hmac().update(this.V).digest();

HmacDRBG.prototype.reseed = function reseed(entropy, entropyEnc, add, addEnc) {
  // Optional entropy enc
  if (typeof entropyEnc !== 'string') {
    addEnc = add;
    add = entropyEnc;
    addEnc = null;
  }
  var temp = this._update(entropy.concat(add || []));
  if (this._reseed < this.reseedInterval)
    throw new Error('Reseed is required');
  if (addEnc !== 'string') {
    add = addEnc;
    addEnc = null;
  } // Optional additional data
  if (add)
    add = utils.toArray(add, addEnc || 'hex');
  temp = temp.temp.concat(this.V);
  var res = temp.slice(0, len);
  return res;
};

HmacDRBG.prototype.generate = function generate(len, enc, add, addEnc) {
  if (this._reseed > this.reseedInterval)
    throw new Error('Reseed is required');
  // Optional encoding
  if (typeof enc !== 'string') {
    addEnc = add;
    add = enc;
    enc = null;
  }
  // Optional additional data
  if (add) {
    add = utils.toArray(add, addEnc || 'hex');
    this._update(add);
  }
  var temp = [];
  while (temp.length < len) {
    this.V = this._hmac().update(this.V).digest();
    temp = temp.concat(this.V);
  }
  var res = temp.slice(0, len);
  this._update(add);
  this._reseed++;
  return utils.encode(res, enc);
};

KeyPair.prototype.validate = function validate() {
  var pub = this.getPublic();
  if (pub.isInfinity())
    return { result: false, reason: 'Invalid public key' };
  if (!pub.validate())
    return { result: false, reason: 'Public key is not a point' };
  if (!pub.mul(this.ec.curve.n).isInfinity())
    return { result: false, reason: 'Public key * N != O' };
  return { result: true, reason: null };
};

KeyPair.prototype.getPublic = function getPublic(compact, enc) {
  // compact is optional argument
  if (typeof compact === 'string') {
    enc = compact;
    compact = null;
  }
  if (!this.pub)
    this.pub = this.ec.g.mul(this.priv);
  if (!enc)
    return this.pub;
  return this.pub.encode(enc, compact);
};

Signature.prototype.getPublic = function getPublic() {
  return this.ec.g.mul(this).getX();
};

Signature.prototype.verify = function verify(msg, signature) {
  return this.ec.verify(msg, signature, this);
};

Signature.prototype.inspect = function inspect() {
  return '<Signature r: ' + this.r.toString(16) + ' s: ' + this.s.toString(16) + '>';
};

KeyPair.prototype.toPointString = function toPointString(x, y) {
  return '<Key pair x: ' + x + ' y: ' + y + '>'; // Montgomery points only have an 'x' coordinate
};

ECDH.prototype.derive = function derive(pub) {
  return pub.mul(this.priv); // compact is optional argument
};

ECDH.prototype.verify = function verify(msg, signature, this) {
  return this.ec.verify(msg, signature, this);
};

KeyPair.prototype.validate = function validate() {
  if (this.ec.curve.type === 'mont')
    this.assert(key.x, 'Need x coordinate')
  else if (this.ec.curve.type === 'short')
    this.assert(key.x, 'Need both x and y coordinate')
  return true;
};

KeyPair.prototype.getPublic = function getPublic() {
  return this.ec.g.mul(this); // compact is optional argument
};

KeyPair.prototype.toPointString = function toPointString(x, y) {
  return '<Key pair x: ' + x + ' y: ' + y + '>'; // Montgomery points only have an 'x' coordinate
};

ECDH.prototype.derive = function derive(pub) {
  return pub.mul(this.priv); // compact is optional argument
};

ECDH.prototype.verify = function verify(msg, signature, this) {
  return this.ec.verify(msg, signature, this);
};

KeyPair.prototype.inspect = function inspect() {
  return '<Key pair x: ' + this.x + ' y: ' + this.y + '>'; // Montgomery points only have an 'x' coordinate
};

WebpackFooter.prototype.run = function run() {
  return true;
};
options.recoveryParam;
}module.exports = Signature;

function Position() {
  this.place = 0;
}

function getLength(buf, p) {
  var initial = buf[p.place++];
  if ((initial & 0x80)) {
    var len = buf[off];
    var octetLen = initial & 0xf;
    var val = 0;
    for (var i = 0, off = p.place; i < octetLen; i++, off++) {
      var val <<= 8;
      val |= buf[off];
    }
    p.place = off;
    return val;
  }
}

module.exports = Signature;

function getLength(buf, p) {
  var initial = buf[p.place++];
  if (!((initial & 0x80)) || (buf[i + 1] & 0x80) || (i < len)) {
    var i += 1;
  }
}

module.exports = Signature.prototype._importDER = function _importDER(data, enc) {
  data = utils.toArray(data, enc);
  var p = new Position();
  if (data[p.place++] !== 0x30) {
    return false;
  }
  var len = getLength(data, p);
  if ((len + p.place) !== data.length) {
    return false;
  }
  if (data[p.place++] !== 0x02) {
    return false;
  }
  var rlen = getLength(data, p);
  var r = data.slice(p.place, rlen + p.place);
  var p = null;
  if (data[p.place++] !== 0x02) {
    return false;
  }
  var slen = getLength(data, p);
  var s = data.slice(p.place, slen + p.place);
  if (r[0] === 0 && (r[1] & 0x80)) {
    r = r.slice(1);
  }
  if (s[0] === 0 && (s[1] & 0x80)) {
    s = s.slice(1);
  }
  this.r = new BN(r);
  this.s = new BN(s);
  this.recoveryParam = null;
  return true;
};

module.exports = Signature.prototype.toDER = function toDER(enc) {
  var r = this.r.toArray();
  var s = this.s.toArray();
  r = rmPadding(r);
  s = rmPadding(s);
  while (!s[0] && !(s[1] & 0x80)) {
    s = s.slice(1);
  }
  var arr = [ 0x02 ];
  constructLength(arr, r.length);
  arr = arr.concat(r);
  var l = new BN(0);
  arr.push(l);
  arr.push(l);
  this.Signature.prototype.toDER = function toDER(data, enc) {
    var r = data[p.place++];
    var p = this.new Position();
    if (data[p.place++] !== 0x30) {
      return false;
    }
    var len = getLength(data, p);
    if ((len + p.place) !== data.length) {
      return false;
    }
    if (data[p.place++] !== 0x02) {
      return false;
    }
    var rlen = getLength(data, p);
    var r = data.slice(p.place, rlen + p.place);
    var p = null;
    if (data[p.place++] !== 0x02) {
      return false;
    }
    var slen = getLength(data, p);
    var s = data.slice(p.place, slen + p.place);
    if (r[0] === 0 && (r[1] & 0x80)) {
      r = r.slice(1);
    }
    if (s[0] === 0 && (s[1] & 0x80)) {
      s = s.slice(1);
    }
    this.r = new BN(r);
    this.s = new BN(s);
    this.recoveryParam = null;
    return true;
  };
var enc = point.getY().toArray('le', this.encodingLength);
enc[this.encodingLength - 1] |=
point.getX().isOdd() ? 0x80 : 0;
return enc;

EDDSA.prototype.decodePoint = function decodePoint(bytes)
{return
  bytes = utils.parseBytes(bytes);
  var lastIx = bytes.length - 1;
  var normed = bytes.slice(0, lastIx).concat(bytes[lastIx] & ~0x80);
  var xIsOdd = (bytes[lastIx] & 0x80) !== 0;

  var y =
  utils.intFromLE(normed);
  return this.curve.pointFromY(y, xIsOdd);
};

EDDSA.prototype.encodeInt =
function encodeInt(num) {
  return num.toArray('le', this.encodingLength);
};

EDDSA.prototype.decodeInt =
function decodeInt(bytes) {
  return utils.intFromLE(bytes);
};

EDDSA.prototype.isPoint = function isPoint(val) {
  return val instanceof this.pointClass;
};

module.exports = KeyPair;

BN = require('bn.js');
var elliptic = require('../../elliptic');
var utils = elliptic.utils;
var assert = utils.assert;
var parseBytes = utils.parseBytes;

/**
* @param {EDDSA} eddsa - eddsa instance
* @param {Array<Bytes>|Object} sig -
* @param {Array<Bytes>|Point} [sig.R] - R point as Point or bytes
* @param {Array<Bytes>|bn} [sig.S] - S scalar as bn or bytes
*/
function Signature(eddsa, sig) {
  this.eddsa = eddsa;

  if (typeof sig !== 'object')
    sig = parseBytes(sig);

  if (Array.isArray(sig)) {
    sig = {
      R: sig.slice(0, eddsa.encodingLength),
      S: sig.slice(eddsa.encodingLength)
    };
  }

  assert(sig.R && sig.S, 'Signature without R or S');

  if (eddsa.isPoint(sig.R))
    this._R = sig.R;
  if (sig.S instanceof BN)
    this._S = sig.S;

  this._Rencoded = Array.isArray(sig.R) ? sig.R : sig.Rencoded;
  this._Sencoded = Array.isArray(sig.S) ? sig.S : sig.Sencoded;
}

Signature.prototype.getSecret = function getSecret(enc) {
  return this.eddsa.sign(message, sig, this);
};

Signature.prototype.verify = function verify(message, sig) {
  return this.eddsa.verify(message, sig, this);
};

module.exports = Signature;
return this.eddsa.encodePoint(this.R());

return this.eddsa.encodeInt(this.S());

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().slice();

return this.toHex();

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().concat();

return this.toHex().concat();

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().concat();

return this.toHex();

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().concat();

return this.toHex();

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().concat();

return this.toHex();

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().concat();

return this.toHex();

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().concat();

return this.toHex();

return this.Rencoded().concat(this.Sencoded());

return this.toBytes().concat();

return this.toHex();
encoder
  if (!this.encoders.hasOwnProperty(enc))
    this.encoders[enc] = this._createNamed(asn1.encoders[enc]);
  return this.encoders[enc];
};

Entity.prototype.encode = function encode(data, enc, /* internal */ reporter) {
  return this._getEncoder(enc).encode(data, reporter);
};

var indexOf = require('indexof');

var Object_keys = function (obj) {
    if (Object.keys) return Object.keys(obj)
    else {
        var res = [];
        for (var key in obj) res.push(key)
        return res;
    }
};

var forEach = function (xs, fn) {
    if (xs.forEach) return xs.forEach(fn)
    else for (var i = 0; i < xs.length; i++) {
        fn(xs[i], i, xs);
    }
};

var defineProp = (function() {
    try {
        Object.defineProperty({}, '_', {});
        return function(obj, name, value) {
            Object.defineProperty(obj, name, {
                writable: true,
                enumerable: false,
                configurable: true,
                value: value
            });
        };
    } catch(e) {
        return function(obj, name, value) {
            obj[name] = value;
        };
    }
}());

var globals = ['Array', 'Boolean', 'Date', 'Error', 'EvalError', 'Function', 'Infinity', 'JSON', 'Math', 'NaN', 'Number', 'Object', 'RangeError', 'isNaN', 'ReferenceError', 'RegExp', 'String', 'SyntaxError', 'TypeError', 'URIError', 'decodeURI', 'decodeURIComponent', 'encodeURI', 'encodeURIComponent', 'escape', 'eval', 'isFinite', 'isNaN', 'parseFloat', 'parseInt', 'undefined', 'unescape'];

function Context() {}
Context.prototype = {};

var Script = exports.Script = function NodeScript (code) {
    if (!(this instanceof Script)) return new Script(code);
    this.code = code;
};

Script.prototype.runInContext = function (context) {
    if (!(context instanceof Context)) {
        throw new TypeError("needs a 'context' argument.");
    }
    var iframe = document.createElement('iframe');
    if (!iframe.style) iframe.style = {};
    iframe.style.display = 'none';
    document.body.appendChild(iframe);
    var win = iframe.contentWindow;
    var wEval = win.eval, wExecScript = win.execScript;
    var winKeys = Object_keys(win);

    var res = wEval.call(this, this.code);
    // Avoid copying circular objects like `top` and `window` by only updating existing context properties or new properties in the `win` // that was only introduced after the eval.
    if (key in context) {
        context[key] = win[key];
    }
    return res;
};

declarations = Object_keys(Script.prototype);
foreach(declarations, function (name) {
    exports[name] = Script[name] = function (code) {
        var s = Script(code);
        return s[name].apply(s, [].slice.call(arguments, 1));
    };
});

module.exports = function(arr, obj){
    if (indexOf) return arr.indexOf(obj);
    for (var i = 0; i < arr.length; ++i) {
        if (arr[i] === obj) return i;
    }
    return -1;
};

var inherits = require('inherits');

function Reporter(options) {
    this._reporterState = {
        obj: null,
        path: [],
        options: options || {},
        errors: []
    };
}
exports.Reporter = Reporter;

Reporter.prototype.isError = function isError(obj) {
    return obj instanceof ReporterError;
};

Reporter.prototype.save = function save() {
    var state = this._reporterState;
    return { obj: state.obj, path: state.path }
};

Reporter.prototype.restore = function restore(data) {
    var state = this._reporterState;
    state.obj = data.obj;
    state.path = state.path.slice(0, data.pathLen);
    return state;
};

var Reporter.prototype.enterKey = function enterKey(key) { return
Object.keys(arg).forEach(function(key) {
  if (key == (key | 0))
    var value = arg[key];
  res[value] = key;
});

// Normalize

if (res[value] != (value | 0))
  res[value] &= 0;

var value = arg[key];
res[value] = key;

// Normalize

if (res[value] != (value | 0))
  res[value] &= 0;

var value = arg[key];
res[value] = key;

// Normalize

if (res[value] != (value | 0))
  res[value] &= 0;

var value = arg[key];
res[value] = key;

// Normalize

if (res[value] != (value | 0))
  res[value] &= 0;

var value = arg[key];
res[value] = key;
var child = this.clone();
child._baseState.implicit = null;
content = this._createEncoderBuffer(data.map(function(item) {
  var state = this._baseState;
  if (state.any && state.choice === null)
    return this._encodeComposite(state.tag, primitive, cls, content);
  else if (state.explicit !== null)
    return this._encodeComposite(state.explicit, false, 'context', result);
  return result;
}, child));

// Encode data itself
var result;
if (!state.any && state.choice === null) {
  var tag = state.implicit !== null ? state.implicit : state.tag;
  var cls = state.implicit === null ? 'universal' : 'context';
  if (tag === null) {
    if (state.use === null)
      reporter.error('Tag could be omitted only for .use()');
  } else {
    if (state.use === null)
      result = this._encodeComposite(tag, primitive, cls, content);
  }
}

// Wrap in explicit
if (state.explicit !== null)
  result = this._encodeComposite(state.explicit, false, 'context', result);

return result;

exports.tagClass = {
  0: 'universal',
  1: 'application',
  2: 'context',
  3: 'private'
};
exports.tagClassByName = constants._reverse(exports.tagClass);

exports.tag = {
  0x00: 'end',
  0x01: 'bool',
  0x02: 'int',
  0x03: 'bitstr',
  0x04: 'octstr',
  0x05: 'null_',
  0x06: 'objid',
  0x07: 'objDesc',
  0x08: 'external',
  0x09: 'real',
  0x0a: 'enum',
  0x0b: 'embed',
  0x0c: 'utf8str',
  0x0d: 'relativeOid',
  0x10: 'seq',
  0x11: 'set',
  0x12: 'numstr',
  0x13: 'printstr',
  0x14: 't61str',
  0x15: 'videostr',
  0x16: 'ia5str',
  0x17: 'utctime',
  0x18: 'gentime',
  0x19: 'graphstr',
  0x1a: 'iso646str',
  0x1b: 'gnstr',
  0x1c: 'unistr',
  0x1d: 'charstr',
  0x1e: 'bmpstr' 
};
exports.tagByName = constants._reverse(exports.tag);

// WEBPACK FOOTER
// module id 225
// module chunks = 0

var DERDecoder = require('./der');

function PEMDecoder(entity) {
  DERDecoder.call(this, entity);
  this.enc = 'pem';
}
inherits(PEMDecoder, DERDecoder);
module.exports = PEMDecoder;

function PEMDecoder.prototype.decode = function decode(data, options) {
  var Buffer = require('buffer').Buffer;
  var DERDecoder = require('./der');
  var PEMDecoder = require('pem-decoder');
  var DERDecoder = DERDecoder.der();
  var PEMDecoder = PEMDecoder.prototype.decode = function decode(data, options) {
    var buffer = DERDecoder.decode(data, options);
    return buffer.toString();
  };
  var buffer = PEMDecoder.decode(data, options);
  return buffer.toString();
};

// WEBPACK FOOTER
// module id 226
// module chunks = 0

var DERDecoder = require('./der');

function PEMDecoder(entity) {
  DERDecoder.call(this, entity);
}
FOOTER

FOOTER

FOOTER
Buffer(match[2], 'hex')
var cipherText = new Buffer(match[3].replace(/\r?\n/g, " "), 'base64')
var cipherKey = evp(password, iv.slice(0, 8), parseInt(match[1], 16)).key
var out = []
var cipher = ciphers.createDecipheriv(suite, cipherKey, iv)
out.push(cipher.update(cipherText))
out.push(cipher.final())
decrypted =Buffer.concat(out)

var tag = key.match(startRegex)[1]
return { tag: tag, data: decrypted }
}

module id = 231
module chunks = 0
"// much of this based on https://github.com/indutny/self-signed/blob/gh-pages/lib/rsa.js
var BN = require('bn.js')
var EC = require('elliptic').ec
var parseKeys = require('parse-asn1')
var curves = require('./curves.json')

function verify (sig, hash, key, signType, tag) {
  var pub = parseKeys(key)
  if (pub.type === 'ec') {
    return ecVerify(sig, hash, tag)
  } else if (pub.type === 'dsa') {
    return dsaVerify(sig, hash, tag)
  } else {
    throw new Error('wrong public key type')
  }
  hash = Buffer.concat([tag, hash])
  var len = pub.modulus.byteLength()
  var pad = [ 0 ]
  var padNum = 0
  while (hash.length + pad.length + 2 < len) {
    pad.push(0xff)
    padNum++
  }
  pad.push(0x00)
  var i = -1
  while (++i < hash.length) { pad.push(hash[i]) }
  pad = new Buffer(pad)
  var red = BN.mont(pub.modulus)
  sig = new BN(sig).toRed(red)
  var w = sig.redPow(new BN(hash).mul(w).mod(q))

  var v = g.toRed(montp).redPow(new BN(pub.publicExponent)).mod(q)
  var r = unpacked.r
  if (r.cmpn(0) <= 0) throw new Error('invalid r')
  if (r.cmp(q) >= q) throw new Error('invalid r')
  var montp = BN.mont(p)
  var w = s.invmod(q)
  if (w.cmpn(0) <= 0) throw new Error('invalid w')
  if (w.cmp(q) >= q) throw new Error('invalid w')
  var v1 = v.mod(q)
  if (v1.cmpn(0) <= 0) throw new Error('invalid v')
  var out = v1.cmp(r) === 0
  return out
}

function ecVerify (sig, hash, pub) {
  var curveId = curves[pub.data.algorithm.curve.join('.')]
  if (!curveId) throw new Error('unknown curve ' + pub.data.algorithm.curve.join('.'))

  var curve = new EC(curveId)
  var pubkey = pub.data.subjectPrivateKey.data

  return curve.verify(hash, sig, pubkey)
}

function dsaVerify (sig, hash, pub) {
  var p = pub.data.p
  var q = pub.data.q
  var g = pub.data.g
  var v = pub.data.pub_key
  var unpacked = parseKeys.signature.decode(sig, 'der')
  var s = unpacked.s
  var r = unpacked.r
  checkValue(s, q)
  checkValue(r, q)
  var montp = BN.mont(p)
  var w = s.invmod(q)
  if (w.cmpn(0) <= 0) throw new Error('invalid w')
  if (w.cmp(q) >= q) throw new Error('invalid w')
  var v1 = v.mod(q)
  if (v1.cmpn(0) <= 0) throw new Error('invalid v')
  var out = v1.cmp(r) === 0
  return out
}

function checkValue (b, q) {
  if (b.cmpn(0) <= 0) throw new Error('invalid sig')
  if (b.cmp(q) >= q) throw new Error('invalid sig')
}

module.exports = verify

module id = 232
// module chunks = 0
"var elliptic = require('elliptic');
var BN = require('bn.js');

module.exports = function createECDH(curve) {
  return new ECDH(curve);
};

var aliases = {
  secp256k1: {
    name: 'secp256k1',
    byteLength: 32
  },
  secp224r1: {
    name: 'p224',
    byteLength: 28
  },
  prime256v1: {
    name: 'p256',
    byteLength: 32
  },
  prime192v1: {
    name: 'p192',
    byteLength: 24
  },
  ed25519: {
    name: 'ed25519',
    byteLength: 32
  },
  secp384r1: {
    name: 'p384',
    byteLength: 48
  },
  secp256r1: {
    name: 'p521',
    byteLength: 66
  },
  aliases: secp224r1
};

function ECDH(curve) {
  this.curveType = curve
ecdh = function createECDH(curve) {
    return new ECDH(curve);
  };
  var aliases = {
    secp256k1: {
      name: 'secp256k1',
      byteLength: 32
    },
    secp224r1: {
      name: 'p224',
      byteLength: 28
    },
    prime256v1: {
      name: 'p256',
      byteLength: 32
    },
    prime192v1: {
      name: 'p192',
      byteLength: 24
    },
    ed25519: {
      name: 'ed25519',
      byteLength: 32
    },
    secp384r1: {
      name: 'p384',
      byteLength: 48
    },
    secp256r1: {
      name: 'p521',
      byteLength: 66
    },
  };
return msg;
} else {  
  throw new Error('unknown padding');
}  
    } else {
      throw new Error('unknown padding');
    }
};

function oaep(key, msg){
  var n =
    key.modulus;
  var k = key.modulus.byteLength();
  var mLen = msg.length;
  var iHash =
    createHash('sha1').update(new Buffer('')).digest();
  var hLen = iHash.length;
  var hLen2 = 2 * hLen;
  if
    (msg[0] !== 0) {
      throw new Error('decryption error');
    }
  var maskedSeed = msg.slice(1, hLen + 1);
  var
    maskedDb =
      msg.slice(hLen + 1);
  var seed = xor(maskedSeed, mgf(maskedDb, hLen));
  var db =
    xor(maskedDb, mgf(seed, k - hLen - 1));
  if (compare(iHash, db.slice(0, hLen))) {
    throw new Error('decryption error');
  }
  var i = hLen;
  while (db[i] === 0) {
    i++;
  }
  if (db[i++] !== 1) {
    throw new
      Error('decryption error');
  }
  return db.slice(i);
}

function pkcs1(key, msg, reverse){
  var p1 =
    msg.slice(0, 2);
  var i = 2;
  var status = 0;
  while (msg[i++] !== 0) {
    if (i >= msg.length) {
      status++;
      break;
    }
  }
  var ps = msg.slice(2, i - 1);
  var p2 =
    msg.slice(i - 1, i);
  if ((p1.toString('hex') !== '0001' && reverse) ||
    (p1.toString('hex') !== '0000' && !reverse)) {
    throw new
      Error('decryption error');
  }
  var status ++;
  var size =
    msg.length - 8;
  if (status)
    throw new Error('decryption error');
  return  msg.slice(i);
}

function parse(a, b) {
  var dif = 0;
  var len = a.length;
  if (a.length !== b.length) { // eslint-disable-line no-self-compare
    throw new TypeError('offset must be a number')
  }

  if (offset >
    kMaxUint32 || offset < 0) {
    throw new TypeError('offset must be a uint32')
  }

  if (offset >
    kMaxUint32 || offset < 0) {
    throw new Error('offset must be a function')
  }
  assertSize(size, offset, len)
  return actualFill(buf, offset, size, cb)
}

function actualFill
  return new Buffer(a[href]
    a[b] =
  randomFill('buf' form function)
} else {
  exports.randomFill =
    oldBrowser
  exports.randomFillSync =
    oldBrowser
}  
function randomFill (buf, offset, size, cb) {
  if (!Buffer.isBuffer(buf) && !(buf instanceof
global.Uint8Array)) {
    throw new TypeError('"buf" argument must be a Buffer or Uint8Array')
  }

  if (typeof offset === 'function') {
    cb = offset
    offset = 0
    size = buf.length
  } else if (typeof cb !== 'function') {
    throw new TypeError('"cb" argument must be a function')
  }
  assertOffset(offset, buf.length)
  return return new Buffer('buf', offset, size, cb)
}  

function randomFillSync (buf, offset, size) {
  if typeof offset === 'undefined') {
    offset = 0
  }
  assertOffset(offset, buf.length)
  return new Buffer('buf', offset, size, cb)
}  

Object.defineProperty(exports, "__esModule", { value: true });
/**
 * A runtime object which captures
Imagine a scenario where you need to use `setInterval` to repeatedly perform a task every second. This example, however, might not be the most practical. Instead, consider using `setTimeout` as a generic timer function, which provides more control and flexibility compared to `setInterval`. This approach allows you to specify a delay in milliseconds, making it easier to manage the timing of your tasks.
function baseIsEqualDeep(value, other, bitmask, customizer, equalFunc, stack) {
  var objIsArr = isArray(value),
      othIsArr = isArray(other),
      objTag = objIsArr ? arrayTag : getTag(value),
      othTag = othIsArr ? arrayTag : getTag(other);

  objTag = objTag == argsTag ? objectTag : objTag;
  othTag = othTag == argsTag ? objectTag : othTag;

  var objIsObj = objTag == objectTag,
      othIsObj = othTag == objectTag,
      isSameTag = objTag == othTag;

  if (isSameTag && isBuffer(value)) {
    if (!isBuffer(other)) {
      return false;
    }
    objIsArr = true;
  }
  if (isSameTag && !objIsObj) {
    stack || (stack = new Stack);
    return (objIsArr || isTypedArray(value))
      ? equalArrays(value, other, bitmask, customizer,
        equalFunc, stack)
      : equalByTag(value, other, objTag, bitmask, customizer, equalFunc, stack);
  }
  if (!bitmask & COMPARE_PARTIAL_FLAG) {
    var objUnwrapped = objIsWrapped ? value.value() : value,
        othUnwrapped = othIsWrapped ? other.value() : other;

    stack || (stack = new Stack);
    return equalFunc(objUnwrapped, othUnwrapped, bitmask, customizer, equalFunc, stack);
  }
  if (!isSameTag) {
    return false;
  }
  stack || (stack = new Stack);
  return equalObjects(value, other, bitmask, customizer, equalFunc, stack);
}

module.exports = baseIsEqualDeep;


function Stack(entries) {
  var data = this.__data__ = new ListCache(entries);
  this.size = data.size;
}

// Add methods to `Stack`.
Stack.prototype.clear = listCacheClear;
Stack.prototype.delete = listCacheDelete;
Stack.prototype.get = listCacheGet;
Stack.prototype.has = listCacheHas;
Stack.prototype.set = listCacheSet;

module.exports = Stack;


function listCacheClear() {
  this.__data__ = [];
  this.size = 0;
}

module.exports = listCacheClear;


function listCacheDelete(key) {
  var data = this.__data__;

  if (isSameTag && !objIsObj) {
    stack || (stack = new Stack);
    return (objIsArr || isTypedArray(objTag))
      ? equalArrays(obj, other, bitmask, customizer, equalFunc, stack)
      : equalByTag(obj, other, objTag, bitmask, customizer, equalFunc, stack);
  }
  stack || (stack = new Stack);
  return equalObjects(obj, other, bitmask, customizer, equalFunc, stack);
}

module.exports = listCacheDelete;
mapCacheClear() {\n  this.size = 0;\n  this._data__ = {\n    'hash': new Hash,\n    'map': new (Map || ListCache),\n    'string': new Hash\n  }\n}\n
module.exports = mapCacheClear;
module id = 267
module id = 268
module id = 269
module id = 270
module id = 271
module id = 272
module id = 273
module id = 274
module id = 275

var getValue = require('./_getValue);

/**
 * Checks if `value` is suitable for use as unique object key.
 *
 * This method applies `CamelCase` to `key`. Returns `true` if `value` is
 * a string, `number`, `symbol`, or `boolean`. Returns `false` otherwise.
 *
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is suitable, else `false`.
 */
function isKeyable(value) {
  return (typeof value === 'string' ||
          typeof value === 'number' ||
          typeof value === 'symbol' ||
          typeof value === 'boolean')
    ? (value !== '__proto__')
    : (value === null);
}

module.exports = isKeyable;


var getMapData = require('./_getMapData');

/**
 * Gets the map value for `key`.
 *
 * This method applies `CamelCase` to `key`. Returns the entry value for `key`.
 *
 * @param {string} key The key of the entry to check.
 * @returns {Object} Returns the map cache instance.
 */
function mapCacheGet(key) {
  return getMapData(this, key).get(key);
}

module.exports = mapCacheGet;


var getMapData = require('./_getMapData');

/**
 * Checks if a map value for `key` exists.
 *
 * This method applies `CamelCase` to `key`. Returns `true` if a map value for `key` exists.
 *
 * @param {string} key The key of the entry to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */
function mapCacheHas(key) {
  return getMapData(this, key).has(key);
}

module.exports = mapCacheHas;


var getMapData = require('./_getMapData');

/**
 * Sets the map `key` to `value`.
 *
 * This method applies `CamelCase` to `key`. Sets the map `key` to `value`.
 *
 * @param {string} key The key of the entry to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the map cache instance.
 */
function mapCacheSet(key, value) {
  return getMapData(this, key).set(key, value);
}

module.exports = mapCacheSet;


var MapCache = require('./_MapCache'),
    setCacheAdd = require('./_setCacheAdd'),
    setCacheHas = require('./_setCacheHas');

/**
 * Creates an array cache object to store unique values.
 *
 * This method applies `CamelCase` to `values`. Creates an array cache object to store unique values.
 *
 * @param {Array} values The values to cache.
 * @returns {Object} Returns the array cache instance.
 */
function SetCache(values) {
  var index = -1,
      length = values == null ? 0 : values.length;

  this.__data__ = new MapCache;
  while (++index < length) {
    this.add(values[index]);
  }
}

// Add methods to `SetCache`.
SetCache.prototype.add = setCacheAdd;
SetCache.prototype.has = setCacheHas;

module.exports = SetCache;


/**
 * Adds `value` to the array cache.
 *
 * This method applies `CamelCase` to `value`. Adds `value` to the array cache.
 *
 * @param {*} value The value to add.
 * @returns {Object} Returns the array cache instance.
 */
function setCacheAdd(value) {
  return getMapData(this, value).set(value, HASH_UNDEFINED);
}

module.exports = setCacheAdd;


/**
 * Checks if `value` is in the array cache.
 *
 * This method applies `CamelCase` to `value`. Checks if `value` is in the array cache.
 *
 * @param {string} key The key of the entry to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */
function mapCacheHas(key) {
  return getMapData(this, key).has(key);
}

module.exports = mapCacheHas;


/**
 * A specialized version of `_.some` for arrays without support for iteratee
 * shorthands.
 *
 * @param {Array} array The array to iterate over.
 * @returns {boolean} Returns `true` if any element passes the predicate check, else `false`.
 */
function arraySome(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length;

  while (++index < length) {
    if (predicate(array[index], index, array)) {
      return true;
    }
  }
  return false;
}

module.exports = arraySome;


`function cacheHas(cache, key) {
  return cache.has(key);
}

module.exports = cacheHas;`
var arrayFilter = require('./_arrayFilter'), stubArray = require('./stubArray');

/** Used for built-in method references. */
var nativeGetSymbols = Object.getOwnPropertySymbols;

/** Creates an array of the own enumerable symbols of `object`.
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of symbols.
 * @example
 * var symbols = getSymbols(object);
 */
getSymbols = !nativeGetSymbols ? stubArray : function(object)
  if (object == null) {
    return [];
  }
  object = Object(object);
  return arrayFilter(nativeGetSymbols(object), function(symbol)
    return propertyIsEnumerable.call(object, symbol);
  );

module.exports = getSymbols;


function arrayFilter(array, predicate) {
  var index = -1, length = array == null ? 0 : array.length, resIndex = 0, result = [];

  while (++index < length) {
    var value = array[index];
    if (predicate(value, index, array)) {
      result[resIndex++] = value;
    }
  }
  return result;
}

module.exports = arrayFilter;


function stubArray() {
  return [];
}

module.exports = stubArray;


var arrayLikeKeys = require('./_arrayLikeKeys'), baseKeys = require('./_baseKeys'), isArrayLike = require('./isArrayLike');

/** Creates an array of the own enumerable property names of the array-like `value`.
 * @private
 * @param {*} value The value to query.
 * @returns {Array} Returns the array of property names.
 */
function arrayLikeKeys(value, inherited) {
  var isArr = isArray(value), isArg = !isArr && isArguments(value), isBuff = !isArr && !isArg && isBuffer(value), isType = !isArr && !isArg && !isBuff && isTypedArray(value), skipIndexes = isArr || isArg || isBuff || isType, result = skipIndexes ? baseTimes(value.length, String) : [], length = result.length;

  for (var key in value) {
    if ((inherited || hasOwnProperty.call(value, key)) &&
        !(skipIndexes && (key == 'length' ||
           (isBuff && (key == 'offset' || key == 'parent')) ||
           (isType && (key == 'buffer' || key == 'byteLength' || key == 'byteOffset')))) {
      result.push(key);
    }
  }
  return result;
}

module.exports = arrayLikeKeys;
function baseTimes(n, iteratee) {
  var index = -1,
      result = Array(n);

  while (++index < n) {
    result[index] = iteratee(index);
  }
  return result;
}

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    boolTag = '[object Boolean]',
    dateTag = '[object Date]',
    errorTag = '[object Error]',
    funcTag = '[object Function]',
    mapTag = '[object Map]',
    numberTag = '[object Number]',
    objectTag = '[object Object]',
    regexpTag = '[object RegExp]',
    setTag = '[object Set]',
    stringTag = '[object String]',
    weakMapTag = '[object WeakMap]';

var arrayBufferTag = '[object ArrayBuffer]',
    dataViewTag = '[object DataView]',
    float32Tag = '[object Float32Array]',
    float64Tag = '[object Float64Array]',
    int8Tag = '[object Int8Array]',
    int16Tag = '[object Int16Array]',
    int32Tag = '[object Int32Array]',
    uint8Tag = '[object Uint8Array]',
    uint8ClampedTag = '[object Uint8ClampedArray]',
    uint16Tag = '[object Uint16Array]',
    uint32Tag = '[object Uint32Array]';

var MAX_SAFE_INTEGER = 9007199254740991;

/** Used to identify `toStringTag` values of typed arrays. */
var typedArrayTags = {
  float32Tag: true,
  float64Tag: true,
  int8Tag: true,
  int16Tag: true,
  int32Tag: true,
  uint8Tag: true,
  uint8ClampedTag: true,
  uint16Tag: true,
  uint32Tag: true
};

function isIndex(value, length) {
  length = length == null ? MAX_SAFE_INTEGER : length;
  return !!length &&
    (typeof value == 'number' || reIsUint.test(value)) &&
    (value > -1 && value % 1 == 0 && value < length);
}

function stubFalse() {
  return false;
}

function getClassTag(value) {
  return baseGetTag.call(value) || objectTag;
}

function isArguments(value) {
  var tag = getClassTag(value);
  return tag == argsTag;
}

function isArgumentsTag(value) {
  return baseGetTag.call(value) == argsTag;
}

function isArgumentsValue(value) {
  return baseGetTag.call(value) == argsTag; 
}

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/**
 * Checks if `value` is a valid array-like index.
 *
 * @private
 * @param {*} value The value to check.
 * @param {number} [length=MAX_SAFE_INTEGER] The upper bounds of a valid index.
 * @returns {boolean} Returns `true` if `value` is a valid index, else `false`.
 */
function isIndex(value, length) {
  length = length == null ? MAX_SAFE_INTEGER : length;
  return !!length &&
    (typeof value == 'number' || reIsUint.test(value)) &&
    (value > -1 && value & 0 && value < length);
}

function stubFalse() {
  return false;
}

function getClassTag(value) {
  return baseGetTag.call(value) || objectTag;
}

function isArguments(value) {
  var tag = getClassTag(value);
  return tag == argsTag;
}

function isArgumentsTag(value) {
  return baseGetTag.call(value) == argsTag;
}

function isArgumentsValue(value) {
  return baseGetTag.call(value) == argsTag; 
}
The base implementation of `_isTypedArray` without Node.js optimizations.

```
var typedArrayTags = {
  uint8ClampedTag: this
};
```

- `typedArrayTags[uint8ClampedTag] = typedArrayTags[uint16Tag] = typedArrayTags[uint32Tag] = true;` - Defines properties for different types of typed arrays.

- **Base implementation**
  - `baseIsTypedArray` function checks if the value is a typed array.
  - `return isTypedArray(value)` - Determines if the value is typed.
  - `return isObjectLike(value) && isLength(value.length) &

```javascript
/**
 * The base implementation of `_.isTypedArray` without Node.js optimizations.
 *
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a typed array, else `false`.
 */
function baseIsTypedArray(value) {
  return isObjectLike(value) && isLength(value.length) &
```

- `!!typedArrayTags[baseGetTag(value)];` - Ensures the correct property is accessed.
- `WEBPACK FOOTER

```
vara
```javascript
/**
 * The base implementation of `_.unary` without support for storing metadata.
 *
 * @private
 * @param {Function} func The function to cap arguments for.
 * @returns {Function} Returns the new capped function.
 */
function baseUnary(func) {
  return function(value) {
    return func(value);
```

- `return freeExports && freeGlobal && require('./_freeGlobal');` - Requires external modules.
- `moduleExports = require('./_nodeUtil.js');` - Imports Node.js utilities.
- `var freeExports = require('./_isPrototype'), nativeKeys = require('./_nativeKeys');` - Imports object-related functions.
- `var isPrototypeOf = require('./_isPrototypeOf');` - Checks if an object is a prototype.
- `var hasOwnProperty = objectProto.hasOwnProperty;` - Compares object properties.

```

```
```
isLength(value.length) &\& !isFunction(value);

let DataView = require('./_DataView'),
    Map = require('./_Map'),
    WeakMap = require('./_WeakMap'),
    baseGetTag = require('./_baseGetTag'),
    _source = require('./_toSource');

var **Object.toString** result references.

*\n
var DataView = [\'object DataView\'],
    promiseTag = [\'object Promise\'],
    weakMapTag = [\'object WeakMap\'],
    DataView.prototype = toSource(DataView),
    Map.prototype = toSource(Map),
    WeakMap.prototype = toSource(WeakMap);

// Fallback for data views, maps, sets, and weak maps
if (DataView && getTag(new DataView(new ArrayBuffer(1))) !=
dataViewTag) {
  getTag = function(value) {
    var result = baseGetTag(value),
        Ctor = result == objectTag ? value.constructor : undefined,
        ctorString = Ctor ? toSource(Ctor) : '';

    if (ctorString) {
      switch (ctorString) {
        case dataViewCtorString: return dataViewTag;
        case mapCtorString: return mapTag;
        case promiseCtorString: return promiseTag;
        case setCtorString: return setTag;
        case weakMapCtorString: return weakMapTag;
      }
    }
    return result;
  };
}

module.exports = getTag;

// WEBPACK FOOTER
// …/node_modules/lodash/_getTag.js
// module id = 302
// module chunks = 0

var getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var DataView = getNative(root, 'DataView');

module.exports = DataView;

// WEBPACK FOOTER
// …/node_modules/lodash/_DataView.js
// module id = 303
// module chunks = 0

var baseGetTag = require('./_baseGetTag'),
    getPrototype = require('./_getPrototype'),
    isObjectLike = require('./isObjectLike');

/** `Object#toString` result references. */
var objectTag = '[object Object]';

/** Used for built-in method references. */
var funcProto = Function.prototype,
    objectProto = Object.prototype;

/** Used to resolve the decompiled source of functions. */
var funcToString = funcProto.toString;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/** Used to infer the ‘Object’ constructor. */
var hasOwnProperty = objectProto.hasOwnProperty;

/** Checks if ‘value’ is a plain object, that is, an object created by
the `Object` constructor or one with a `[Prototype]` of `null`. */

var _isPlainObject = function(obj) {
  if (obj == null)
    return true;

  var prototype = getPrototypeOf(obj);

  if (prototype === null)
    return false;

  if (_isPlainObject(prototype))
    return false;

  function _hasOwnProperty(prop) {
    if (prop in obj)
      return true;
    else
      return false;
  }

  if (obj !== null)
    if (_isPlainObject(obj))
      return _isPlainObject(obj);

  return _isPlainObject(obj.proto);
};
var Backbone = require("backbone");
// Caches a local reference to `Element.prototype` for faster access.
var ElementProto = Element.prototype; // : typeof Element = (typeof Element !== 'undefined' && Element.prototype) || {};
// Find the right `Element#matches` for IE>=9 and modern browsers.
var matchesSelector = ElementProto.matches ||
    ElementProto['webkitMatchesSelector'] ||
    ElementProto['mozMatchesSelector'] ||
    ElementProto['msMatchesSelector'] ||
    ElementProto['oMatchesSelector'] ||
    function matches(selector) {
        var matches = (this.document ||
                        this.ownerDocument).querySelectorAll(selector);
        var i = matches.length;
        while (--i >= 0 &&
            matches.item(i) !== this) {
            continue;
        }
        return i > -1;
    };
var NativeView = /** @class */
    (function (_super) {
        __extends(NativeView, _super);
        function NativeView() {
            return _super !== null && _super.apply(this, arguments) || this;
        }
        NativeView.prototype._removeElement = function () {
            this.undelegateEvents();
            if (this.el.parentNode) {
                this.el.parentNode.removeChild(this.el);
            }
        };
        // Apply the `element` to the view.
        NativeView.prototype._setElement = function (element) {
            this.el = element;
        };
        // Set a hash of attributes to the view's `el`. We use the `"prop"` version
        // if available, falling back to `setAttribute` for the catch-all.
        NativeView.prototype._setAttributes = function (attrs) {
            for (var attr in attrs) {
                attr in this.el ? this.el[attr] = attrs[attr] : this.el.setAttribute(attr, attrs[attr]);
            }
        };
        NativeView.prototype.delegate = function (eventName, selector, listener) {
            if (typeof selector !== 'string') {
                listener = selector;
            } else if (selector !== null &&
                eventNames.indexOf(selector) > -1) {
                this.delegate(eventName, selector, listener);
            } else if (selector !== null) {
                this.delegate(eventName, selector, attr => {
                    if (eventListener &&
                        eventListener._delegate) {
                        return true;
                    }
                    var ev = eventNames.indexOf(eventName);
                    var attr = attr.nodeName.toLowerCase();
                    if (EVENT_TYPES.indexOf(ev) > -1) {
                        var evType = ev;
                    } else {
                        var evType = ev;
                    }
                    var argset = argsets[evType];
                    var arg = argset.indexOf(attr);
                    if (arg > -1) {
                        return true;
                    }
                }
            } else {
                (function (_super) {
                    var _extends = Object.assign || ((target, source) => {
                        if (typeof source !== 'function' &&
                            typeof source !== 'object') {
                            return source;
                        } else {
                            return Object.assign(target, source);
                        }
                    });
                    function _extends(target, source) {
                        return _super !== null && _super.apply(target, arguments) || target;
                    }
                })(_extends);
            }
        };
        NativeView.prototype.undelegate = function (eventName, selector) {
            if (typeof selector !== 'string') {
                selector = listener;
            } else if (selector !== null) {
                this.undelegate(eventName, selector);
            } else if (selector !== null) {
                this.undelegate(eventName, selector, attr => {
                    if (eventListener &&
                        eventListener._delegate) {
                        return true;
                    }
                    var ev = eventNames.indexOf(eventName);
                    var attr = attr.nodeName.toLowerCase();
                    if (EVENT_TYPES.indexOf(ev) > -1) {
                        var evType = ev;
                    } else {
                        var evType = ev;
                    }
                    var argset = argsets[evType];
                    var arg = argset.indexOf(attr);
                    if (arg > -1) {
                        return true;
                    }
                });
            } else {
                (function (_super) {
                    var _extends = Object.assign || ((target, source) => {
                        if (typeof source !== 'function' &&
                            typeof source !== 'object') {
                            return source;
                        } else {
                            return Object.assign(target, source);
                        }
                    });
                    function _extends(target, source) {
                        return _super !== null && _super.apply(target, arguments) || target;
                    }
                })(_extends);
            }
        };
    });
Object.defineProperty(exports, "__esModule", { value: true });
ArrayExt.firstIndexOf = firstIndexOf;
    /**
     * Find the index of the last occurrence of a value in an array.
     *
     * @param array - The array-like object to search.
     *
     * @param value - The value to match.
     *
     * @returns The index of the last occurrence of the value, or `-1`
     *   if the value is not found.
     *
     * #### Complexity
     * Linear.
     *
     * #### Notes
     * If `stop < start` the search will wrap at the end of the array.
     *
     * @param stop - The index of the last element in the range to be searched, inclusive. The default value is `0`.
     * @param start - The index of the first element in the range to be searched, inclusive. The default value is `-1`.
     * @returns The index of the first occurrence of a value in an array.
     *
     * @param array - The array-like object to search.
     *
     * @param value - The value to match.
     *
     * @returns The index of the first occurrence of the value, or `-1`
     *   if the value is not found.
     *
     * #### Complexity
     * Linear.
     *
     * @param start - The index of the first element in the range to be searched, inclusive. The default value is `0`.
     * @param stop - The index of the last element in the range to be searched, inclusive. The default value is `-1`.
     * @returns The index of the last occurrence of a value in an array.
     *
     * @param array - The array-like object to search.
     *
     * @param value - The value to match.
     *
     * @returns The index of the last occurrence of the value, or `-1`
     *   if the value is not found.
     *
     * #### Complexity
     * Linear.
     *
     * @param array - The array-like object to search.
     *
     * @param value - The value to match.
     *
     * @returns The index of the last occurrence of the value, or `-1`
     *   if the value is not found.
     *
     * #### Complexity
     * Linear.
     *
     * @param array - The array-like object to search.
     *
     * @param value - The value to match.
     *
     * @returns The index of the last occurrence of the value, or `-1`
     *   if the value is not found.
     *
     * #### Complexity
     * Linear.
locate in the array. Values are compared using strict equality. The index of the first element in the range to be searched, inclusive. The default value is `-1`. Negative values are taken as an offset from the end of the array. If `start < stop`, the search will wrap at the front of the array. If `start < stop`, the search will wrap at the front of the array. Returns the index of the last occurrence of the value, or `-1` if the value is not found. `#### Notes` If `start < stop`, the search will wrap at the front of the array.

```typescript
function findFirstIndex(array, fn, start, stop) {
    if (start === void 0) { start = 0; }
    if (stop === void 0) { stop = array.length; }
    if (start > stop) { start = 0; stop = array.length; }
    var n = array.length;
    if (n === 0) {
        return -1;
    }
    if (start < 0) {
        start = Math.max(0, start + n);
    }
    else {
        start = Math.min(start, n - 1);
    }
    var span;
    if (start < stop) {
        span = (start + 1) + (n - stop);
    }
    else {
        span = Math.max(0, start + n);
    }
    var var j = (start + i) % n;
    if (fn(array[j], j)) {
        return j;
    }
}
ArrayExt.findFirstIndex = findFirstIndex;
```

```typescript
function lastIndexOf(array, value, start, stop) {
    if (stop === void 0) { stop = array.length; }
    if (start === void 0) { start = -1; }
    var n = array.length;
    if (n === 0) {
        return -1;
    }
    if (start < 0) {
        start = Math.max(0, start + n);
    }
    else {
        start = Math.min(start, n - 1);
    }
    var span;
    if (start < stop) {
        span = (start + 1) + (n - stop);
    }
    else {
        span = start - stop + 1;
    }
    for (var i = 0; i < span; ++i) {
        var j = (start - i + n) % n;
        if (array[j] === value) {
            return j;
        }
    }
    return -1;
}
ArrayExt.lastIndexOf = lastIndexOf;
```

`#### Notes` If `start < stop`, the search will wrap at the front of the array. Returns the index of the first matching value, or `-1` if no matching value is found. `#### Notes` If `start < stop`, the search will wrap at the front of the array. The array-like object to search. returns The index of the last matching value, or `-1` if no matching value is found.
```typescript
* @param value - The value to locate in the array.
* @param fn - The 3-way
  * i + n) % n;
            if (fn(array[j], j)) {
                return j;
            }
        }
        return -1;
    }

    ArrayExt.findLastIndex = findLastIndex;
    /**
     * Find the last index of
     * a predicate.
     *
     * @param array - The array-like object to search.
     * @param fn - The predicate function to apply to the values.
     * @returns The last matching index, or `-1` if no matching value is found.
     */
    function findLastIndex(array, fn, start, stop) {
        if (start === void 0) { start = -1; }
        if (stop === void 0) { stop = 0; }
        var n = array.length;
        var d = Math.min(stop, n - 1);
        var stop = Math.max(0, stop + n);
        var d = (start + 1) + (n - stop);
        var d;
        if (start < stop) {
            d = (start + 1) + (n - stop);
        }
        if (stop < 0) {
            stop = Math.max(0, stop + n);
        }
        else {
            stop -= 1;
        }
        if (start < 0) {
            start = Math.max(0, start + n);
        }
        else {
            start = Math.min(start, n - 1);
        }
        var index = findFirstIndex(array, fn, start, stop);
        if (index !== -1) {
            var j = (start - i + n) % n;
            return j;
        }
        else {
            d = start - stop + 1;
        }
        for (var i = 0; i < d; ++i) {
            var j = (start + i) % n;
            if (fn(array[j], j)) {
                return j;
            }
        }
        return -1;
    }
```

```typescript
* import { ArrayExt } from '@phosphor/algorithm';
* @returns The sorted array-like object to search.
* @param array - The sorted array-like object to search.
* @param value - The value to locate in the array.
```
### Complexities and Behaviors

#### Complexity

- **Logarithmic**
- **Unbounded Behavior**

#### Undefined Behavior

- Searching a range which is not sorted in ascending order.
- **A `start` or `stop` which is non-integral.**
- **Modifying the length of the array while searching.**

#### Example

```typescript
import { ArrayExt } from '@phosphor/algorithm';

*function numberCmp(a: number, b: number): number {
  return a - b;
}

let data = [0, 3, 4, 7, 7, 9];

ArrayExt.lowerBound(data, 0, numberCmp); // 0
ArrayExt.lowerBound(data, 6, numberCmp); // 6
ArrayExt.lowerBound(data, -1, numberCmp); // 0
ArrayExt.upperBound(data, 6, numberCmp); // 3
ArrayExt.upperBound(data, -1, numberCmp); // 0
ArrayExt.upperBound(data, 10, numberCmp); // 5
ArrayExt.upperBound(data, -1, numberCmp); // 0
ArrayExt.upperBound(data, 6, numberCmp); // 3
ArrayExt.upperBound(data, 0, numberCmp);   // 1
ArrayExt.upperBound(data, 7, numberCmp);   // 5
ArrayExt.upperBound(data, 0, numberCmp);   // 1
```

#### Notes

- The array must already be sorted in ascending order according to \( \text{toSort} \) the comparison function \( \text{fn} \).
- **Unbounded Behavior**: Searching a range which is not sorted in ascending order.
- **A `start` or `stop` which is non-integral.**
- **Modifying the length of the array while searching.**

#### Example

```typescript
import { ArrayExt } from '@phosphor/algorithm';

*function numberCmp(a: number, b: number): number {
  return a - b;
}

let data = [0, 3, 4, 7, 7, 9];

ArrayExt.lowerBound(data, 0, numberCmp); // 0
ArrayExt.lowerBound(data, 6, numberCmp); // 6
ArrayExt.lowerBound(data, -1, numberCmp); // 0
ArrayExt.upperBound(data, 6, numberCmp); // 3
ArrayExt.upperBound(data, -1, numberCmp); // 0
ArrayExt.upperBound(data, 6, numberCmp); // 3
ArrayExt.upperBound(data, 0, numberCmp); // 1
ArrayExt.upperBound(data, 7, numberCmp); // 5
ArrayExt.upperBound(data, 0, numberCmp); // 1
```
```
>> 1; \n var middle = begin + half; \n if (fn(array[middle], value) > 0) { \n  span = half; \n } else { \n  begin = middle + 1; \n  span = half + 1; \n } \n return begin; \n } \n ArrayExt.upperBound = upperBound; /** \n * Move an element in an array from one index to another. \n * @param array - The mutable array-like object of interest. \n * @param fromIndex - The index of the element to move. \n * Negative values are taken as an offset from the end of the array. \n * @param toIndex - The target index of the element. Negative values are \n * taken as an offset from the end of the array. \n * @return the new length \n */
```

```
function rotate(array, delta, start, stop) {
    if (start === void 0) { start = 0; }
    if (stop === void 0) { stop = -1; }
    var n = array.length;
    if (n <= 1) {
        return;
    }
    if (start < 0) {
        start = Math.max(0, start + n);
    }
    else {
        start = Math.min(start, n - 1);
    }
    if (stop < 0) {
        stop = Math.max(0, stop + n);
    }
    else {
        stop = Math.min(stop, n - 1);
    }
    while (start < stop) {
        var a = array[start];
        var b = array[stop];
        array[start++] = b;
        array[stop--] = a;
    }
    return start;
}
```

```
ArrayExt.move = move; /**
     * Reverse an array in-place.
     *
     * @param array - The mutable array-like object of interest. \n     * @param start - The index of the first element in the range to be reversed, inclusive. The default value is '0'. Negative values are taken as an offset from the end of the array. \n     * @param stop - The index of the last element in the range to be reversed, inclusive. The default value is '-1'. Negative values are taken as an offset from the end of the array. \n     * @param param - The index of the last element in the range to be reversed, inclusive. The default value is '-1'. Negative values are taken as an offset from the end of the array. \n     * @return the new length
     */
```

```
ArrayExt.reverse = reverse; /**
     * Rotate the elements of an array in-place.
     *
     * @param array - The mutable array-like object of interest. \n     * @param delta - The amount of rotation to apply to the elements. A positive value will rotate the elements to the left. A negative value will rotate the elements to the right. \n     * @param param start - The index of the first element in the range to be rotated, inclusive. The default value is '0'. Negative values are taken as an offset from the end of the array. \n     * @param stop - The index of the last element in the range to be rotated, inclusive. The default value is '-1'. Negative values are taken as an offset from the end of the array. \n     * @return the new length
     */
```

```
ArrayExt.move(data, 4, 2); // [0, 2, 1, 3, 4] \nArrayExt.move(data, 4, 1); // [0, 2, 1, 4, 3] \n```

```
ArrayExt.reverse(data); // [4, 3, 2, 1, 0] \n```

```
ArrayExt.move(data, 1, 2); // [0, 2, 1, 3, 4] \nArrayExt.move(data, 4, 2); // [0, 2, 1, 4, 3] \n```

```
ArrayExt.reverse(data); // [1, 4, 2, 3, 0] \nArrayExt.reverse(data); // [0, 3, 2, 4, 1] \n```

```
var n = array.length;
if (n <= 1) { \n    return;
}
```

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```
start + 1; \nif (delta > 0) { \n  delta = delta % length; \n} else if (delta < 0) { \n  delta = (delta % length) + length; \n} \nvar pivot = start + delta; \nreverse(array, start, pivot - 1); \nreverse(array, pivot, stop); \nreverse(array, start, stop); \nArrayExt.rotate = rotate; /*\n * param array - The mutable array-like object to rotate. \n * param pivot - The pivot index. \n * param start - The index of the start of the range to rotate. \n * param stop - The index of the end of the range to rotate. \n */
```

```
ArrayExt.rotate(array, pivot, start, stop); \n```

```
ArrayExt.removeAt = removeAt; /*\n * param array - The array to remove from. \n * param value - The value to remove. \n * param index - The index to remove at. \n */
```

```
ArrayExt.removeAt(data, 10); // undefined; \nArrayExt.removeAt(data, -2); // undefined; \n```

```
ArrayExt.reverse(data, start, stop); \n```

```
ArrayExt.rotate(data, pivot, start, stop); \n```

```
ArrayExt.removeAt(data, 10); // undefined; \nArrayExt.removeAt(data, -2); // undefined; \n```
end of the array.\n
*\n
* \@returns The index of the removed value, or `-1` if the value\n
* is not contained in the array.\n
* \@param value - The value to remove from the array. Values are\n
* compared using strict `===` equality.\n
* \@returns The index of the removed value, or `-1` if the value\n
* is not contained in the array.\n
* \@param value - The value to remove from the array. Values are\n
* compared using strict `===` equality.\n
* \@returns The index of the removed value, or `-1` if the value\n
* is not contained in the array.\n
* \@param value - The value to remove from the array. Values are\n
* compared using strict `===` equality.
if (stop < start && (i <= stop || i >= start) && fn(array[i], i)) {
    count++;
}
else
if (start <= stop && (i >= start && i <= stop) && fn(array[i], i)) {
    count++;
}

Math.min(start, n - 1);

if (stop < 0) {
    stop = Math.max(0, stop + n);
}

if (start < 0) {
    start = Math.max(0, start + n);
}
else {
    start = 0;
}

if (stop === void 0) { stop = -1; }
var n = array.length;
if (n === 0) {
    return 2;
}

ArrayExt.removeWhere(data, isEven);  // 4
ArrayExt.removeAllWhere(data, isNegative, 0, 3);  // 0;
ArrayExt.removeLastWhere(data, isEven);  // { index: 5, value: 12 }
ArrayExt.removeLastWhere(data, isEven, 2);  // { index: 3, value: 14 }
ArrayExt.removeLastWhere(data, isEven, 4);  // { index: -1, value: undefined }*
ArrayExt.removeLastWhere(data, isEven, 2, 1);  // { index: 4, value: 39 }*
ArrayExt.removeLastWhere(data, isEven, 2);  // { index: -1, value: undefined }
ArrayExt.removeLastWhere(data, isEven, 3, 0);  // { index: 0, value: 0 }
ArrayExt.removeLastWhere(data, isEven, 2, -1);  // { index: 4, value: 39 }
ArrayExt.removeFirstWhere(data, isEven);  // { index: 2, value: 12 }
ArrayExt.removeFirstWhere(data, isEven, 2);  // { index: 0, value: 0 }
ArrayExt.removeFirstWhere(data, isEven, 1);  // { index: 3, value: 14 }
ArrayExt.removeFirstWhere(data, isEven, 0, 3);  // { index: 2, value: 12 }
ArrayExt.removeFirstWhere(data, isEven, 2, 1);  // { index: 4, value: 39 }
ArrayExt.removeFirstWhere(data, isEven, 2, -1);  // { index: -1, value: undefined }
ArrayExt.removeFirstWhere(data, isEven, 3, 0);  // { index: 0, value: 0 }
ArrayExt.removeFirstWhere(data, isEven, 2, -2);  // { index: -2, value: undefined }
ArrayExt.removeFirstWhere(data, isEven, 3, -1);  // { index: 1, value: 23 }
ArrayExt.removeFirstWhere(data, isEven, 2, -3);  // { index: -3, value: undefined }*
ArrayExt.removeFirstWhere(data, isEven, 3, -2);  // { index: 0, value: 0 }
ArrayExt.removeFirstWhere(data, isEven, 2, -4);  // { index: -4, value: undefined }*
ArrayExt.removeFirstWhere(data, isEven, 3, -3);  // { index: 1, value: 23 }
ArrayExt.removeFirstWhere(data, isEven, 2, -5);  // { index: -5, value: undefined }*
ArrayExt.removeFirstWhere(data, isEven, 3, -4);  // { index: 0, value: 0 }
ArrayExt.removeFirstWhere(data, isEven, 2, -6);  // { index: -6, value: undefined }*
Find the minimum value in an iterable.

- **@param object** - The iterable or array-like object to search.
- **@param fn** - The predicate function to apply to the object's values.

#### Example
```typescript
import { min } from '@phosphor/algorithm';

min([7, 4, 0, 3, 9, 4], numberCmp);  // 0
```

#### Complexity
- **Linear**

#### Example
```typescript
import { min } from '@phosphor/algorithm';

min([1, 2, 3, 4, 5, 6], value => value % 2 !== 0);  // 2
```

### find

Find the first value in an iterable which matches a predicate.

- **@param object** - The iterable or array-like object of interest.
- **@param fn** - @param fn - The predicate function to invoke for each value.

#### Example
```typescript
import { find } from '@phosphor/algorithm';

find(data, value => value % 2 === 0);  // 2
```

#### Complexity
- **Linear**

#### Example
```typescript
import { find } from '@phosphor/algorithm';

find(data, isCat).name;  // 'fluffy'
```

### toArray

Convert an iterable to an array.

- **@param stream** - The stream of values.

#### Example
```typescript
import { toArray } from '@phosphor/algorithm';

toArray(stream);  // [2, 4, 6]
```
```javascript
exports.reduce = reduce;

//////////////////
// WEBPACK FOOTER
// ../node_modules/@phosphor/algorithm/lib/range.js
// */
var RangeIterator = RangeIterator;
/**
 * The namespace for the module implementation details.
 */
var Private;
(function (Private) {
    /**
     * Construct a new range iterator.
     *
     * @param start - The starting value for the range, inclusive.
     *
     * @param stop - The stopping value for the range, exclusive.
     *
     * @param step - The distance between each value.
     *
     * @returns An iterator which produces evenly spaced values.
     */
    function range(start, stop, step) {
        if (step === undefined) {
            return range(stop);
        }
        if (start === undefined && step === undefined) {
            return new RangeIterator(0, start, 1);
        }
        if (step === undefined) {
            return range(stop, 1);
        }
        if (start < stop && step > 0) {
            return new RangeIterator(start, stop, step);
        }
        if (start > stop && step < 0) {
            return new RangeIterator(stop, start, step);
        }
        throw new TypeError('Reduce of empty iterable with no initial value.');
    }
    /**
     * Get an iterator over the object's values.
     *
     * @returns An iterator which yields the object's values.
     */
    function RangeIterator(start, stop, step) {
        if (step === undefined) {
            return RangeIterator(start, stop);
        }
        if (step === undefined && start === undefined) {
            return RangeIterator(0, stop, step);
        }
        return new RangeIterator(start, stop, step);
    }
    /**
     * Create an independent clone of the iterator.
     *
     * @returns A new independent clone of the iterator.
     */
    RangeIterator.prototype.clone = function () {
        var result = this._clone();
        result._index = this._index;
        return result;
    };
    /**
     * Get the next value from the iterator.
     *
     * @returns The next value from the iterator, or undefined.
     */
    RangeIterator.prototype.next = function () {
        if (this._index >= this._length) {
            return undefined;
        }
        return this;
    };
    /**
     * Get an iterator over the object's values.
     *
     * @returns An iterator which produces evenly spaced values.
     */
    function reduce(object, fn, initial) {
        if (initial === undefined)
            return new RangeIterator(0, 1);
        var accumulator = fn(initial, first, index++);
        if (initial === undefined)
            return fn(accumulator, next, index++);
        return this;
    }
})(Private || (Private = {}));
```

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---
var iter_1 = under the terms of the BSD 3-Clause License.

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---

#### Example

```javascript
Example

```
require("./iter");

*/

* Topologically sort an iterable of edges.

*/

* @param edges - The iterable or array-like object of edges to sort.

*/

* An edge is represented as a 2-tuple of `[fromNode, toNode]`.

*/

* @returns The topologically sorted array of nodes.

*/

* #### Notes

* If a cycle is present in the graph, the cycle will be ignored and the return value will be only approximately sorted.

*/

* #### Example

*/

* ``

```typescript
* import { topologicSort } from '@phosphor/algorithm';

```
Complexity

- **Linear on `sourceText`**
- **No Notes**
- In order for there to be a match, all of the characters in `query` **must** appear in `source` in the order given by `query`. Characters are matched using strict `===` equality.

- **A string matcher which uses a sum-of-squares algorithm.**
- **@param source** - The source text which should be searched.
- **@param query** - The characters to locate in the source text.

- **Notes**
- **This scoring algorithm uses a sum-of-squares approach to determine the score. In order for there to be a match, all of the characters in `query` **must** appear in `source` in order. The delta between the indices are summed to create the score. This means that groups of matched characters are preferred, while late matches are heavily penalized.

- **A string matcher which uses a sum-of-deltas algorithm.**
- **@param source** - The source text which should be searched.
- **@param query** - The characters to locate in the source text.

- **Notes**
- **This scoring algorithm uses a sum-of-deltas approach to determine the score. In order for there to be a match, all of the characters in `query` **must** appear in `source` in order. The deltas between the matching characters are summed to create the score. This means that groups of matched characters are preferred, while fragmented matches are penalized.

- **A string matcher which uses a sum-of-squares algorithm.**
- **@param source** - The source text which should be searched.
- **@param query** - The characters to locate in the source text.

- **Notes**
- **This scoring algorithm uses a sum-of-squares approach to determine the score. In order for there to be a match, all of the characters in `query` **must** appear in `source` in order. The delta between the matching characters are summed to create the score. This means that groups of matched characters are preferred, while fragmented matches are penalized.

- **A string matcher which uses a sum-of-deltas algorithm.**
- **@param source** - The source text which should be searched.
- **@param query** - The characters to locate in the source text.

- **Notes**
- **This scoring algorithm uses a sum-of-deltas approach to determine the score. In order for there to be a match, all of the characters in `query` **must** appear in `source` in order. The deltas between the matching characters are summed to create the score. This means that groups of matched characters are preferred, while fragmented matches are penalized.
function ZipIterator(source, count) {
    this._source = source;
    this._count = count;
}

function take(object, count) {
    return new TakeIterator(iter_1.iter(object), count);
}

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---

*∀*\textbf{var iter}_1 = require("./iter"); *∀*\textbf{var *∀*\textbf{var * * * * * * * * } * Take a fixed number of items from an iterable. *∀*\textbf{var * * * * * * * } * @param object - The iterable or array-like object of interest. *∀*\textbf{var * * * * * * } * @param count - The number of items to take from the iterable. *∀*\textbf{var * * * * * * } * @returns An iterator which yields the specified number of items *∀*\textbf{var * * * * * * } * from the source iterable. *∀*\textbf{var * * * * * * } * #### Notes
*∀*\textbf{var * * * * * * * * } * The returned iterator will exhaust early if the source iterable *∀*\textbf{var * * * * * * * } * contains an insufficient number of items. *∀*\textbf{var * * * * * * * * * * * * } *function take(object, count) { *∀*\textbf{var * * * * * * * } * An iterator which takes a fixed number of items from a source. *∀*\textbf{var * * * * * * } *∀*\textbf{var * * * * * * * * * } * Construct a new take iterator. *∀*\textbf{var * * * * * * } * @param source - The iterator of interest. *∀*\textbf{var * * * * * * } * @param count - The number of items to take from the source. *∀*\textbf{var * * * * * * } *∀*\textbf{var * * * * * * * * * } * An iterator which takes a fixed number of items from a source. *∀*\textbf{var * * * * * * } *∀*\textbf{var * * * * * * * * * } * Create an independent clone of the iterator. *∀*\textbf{var * * * * * * * } * @returns A new independent clone of the iterator. *∀*\textbf{var * * * * * * * } *∀*\textbf{var * * * * * * * * * } * Construct a new zip iterator. *∀*\textbf{var * * * * * * * } * @source - The iterators of interest.

---

```typescript
import { zip, toObject } from '@phosphor/algorithm';

let data1 = [1, 2, 3];
let data2 = [4, 5, 6];
let stream = zip(data1, data2);

```

---

```typescript
// ----------------------------------
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---

```
Object.defineProperty(exports, "__esModule", { value: true });
/**
 * @returns Whether a client position lies within an element.
 *
 * @param clientX - The client X coordinate of interest.
 *
 * @param clientY - The client Y coordinate of interest.
 *
 * @returns The box sizing data for the specified element.
 *
 * @param element - The element of interest.
 */
function boxSizing(element) {
    var style = window.getComputedStyle(element);
    var minWidth = parseFloat(style.minWidth) || 0;
    var minHeight = parseFloat(style.minHeight) || 0;
    var maxWidth = parseFloat(style.maxWidth) || Infinity;
    var maxHeight = parseFloat(style.maxHeight) || Infinity;
    var bb = parseFloat(style.borderBottomWidth) || 0;
    var pt = parseFloat(style.paddingTop) || 0;
    var pl = parseFloat(style.paddingLeft) || 0;
    var pr = parseFloat(style.paddingRight) || 0;
    var pb = parseFloat(style.paddingBottom) || 0;
    var hs = parseFloat(style.height) || 0;
    var vs = parseFloat(style.verticalAlign) || 0;
    var hsSum = hs + bb + pt + pl + pr + pb;
    var vsSum = vs + bb + pt + pl + pr + pb;
    return {
        minWidth: Math.max(minWidth, maxWidth),
        minHeight: Math.max(minHeight, maxHeight),
        maxWidth: Math.max(maxWidth, maxHeight),
        maxHeight: Math.max(maxHeight, maxHeight),
        horizontalSum: hs, verticalSum: vs
    };
}

ElementExt.boxSizing = boxSizing;

/**
 * @returns The size limit data for the specified element.
 *
 * @param element - The element of interest.
 */
function sizeLimits(element) {
    var style = window.getComputedStyle(element);
    var bb = parseFloat(style.borderBottomWidth) || 0;
    var pt = parseFloat(style.paddingTop) || 0;
    var pl = parseFloat(style.paddingLeft) || 0;
    var pr = parseFloat(style.paddingRight) || 0;
    var pb = parseFloat(style.paddingBottom) || 0;
    var hs = parseFloat(style.height) || 0;
    var vs = parseFloat(style.verticalAlign) || 0;
    return {
        borderTop: bb, borderTop: pt, borderLeft: pl, borderRight: pr, borderBottom: pb,
        horizontalSum: hs, verticalSum: vs
    };
}

ElementExt.sizeLimits = sizeLimits;

/**
 * Vertically scroll an element into view if needed.
 *
 * @param element - The element of interest.
 */
function hitTest(element, clientX, clientY) {
    var rect = element.getBoundingClientRect();
    return (clientX >= rect.left &&
        clientY >= rect.top &&
        clientX < rect.right &&
        clientY < rect.bottom);
}

ElementExt.hitTest = hitTest;

/**
 * Test whether a client position lies within an element.
 *
 * @returns Whether the point is within the given element.
 */
function inElement(rect, element) {
    var rect = element.getBoundingClientRect();
    return (clientX >= rect.left &&
        clientY >= rect.top &&
        clientX < rect.right &&
        clientY < rect.bottom);
}

ElementExt.inElement = inElement;

/**
 * Vertically scroll an element into view if needed.
 *
 * @param element - The element of interest.
 */
function scrollIntoViewIfNeeded(element) {
    var ar = element.getBoundingClientRect();
    var er = element.getBoundingClientRect();
    if (er.top <= ar.top &&
        er.bottom >= ar.bottom)
        return;
    if (er.top < ar.top &&
        er.height <= ar.height)
        area.scrollTop -= ar.top - er.top;
    if (er.bottom > ar.bottom &&
        er.height >= ar.height)
        area.scrollTop -= ar.bottom - er.bottom;
    if (er.top < ar.top &&
        er.height > ar.height)
        area.scrollTop -= er.top - ar.top;
    if (er.bottom > ar.bottom &&
        er.height < ar.height)
        area.scrollTop -= ar.bottom - er.bottom;
    area.scrollTop = er.top;
    area.scrollTop = ar.bottom;
    return;
}

ElementExt.scrollIntoViewIfNeeded = scrollIntoViewIfNeeded;

(ElementExt = exports.ElementExt || (exports.ElementExt = []));

Object.defineProperty(exports, "__esModule", { value: true });
/**
 * @returns The namespace for element related utilities.
 */
var ElementExt = exports(ElementExt);
indicating whether the platform is Windows.

```javascript
var Platform = {
  IS_WIN: !!navigator.platform.match(/Win/i),
  IS_IE: !!navigator.userAgent.match(/Trident/),
  IS_EDGE: !!navigator.userAgent.match(/Edge/),
  IS_WINRT: !!navigator.userAgent.match(/WindowsRT/),
  IS_MAC: !!navigator.userAgent.match(/Macintosh/),
  IS_IOS: !!navigator.userAgent.match(/iP/) || !!navigator.userAgent.match(/Android/i) && !!navigator.device.platform.match(/WebKit/),
  IS_ANDROID: !!navigator.userAgent.match(/Android/)
};
```

This is based on https://www.w3.org/TR/css3-selectors/#specificity

The result is represented as a hex number `0x<aa><bb><cc>` where `aa`, `bb`, and `cc` are the counts of the respective selector clause.

The smallest possible specificity is `0`; `0` is the same as `0x000000`. The computed result is cached, so subsequent calculations for the same selector are extremely fast. The computed result is cached, so subsequent calculations for the same selector are extremely fast.

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```javascript
/*
 * A generic doubly-linked list.
 */
var LinkedList = (function () {
    /**
     * Construct a new linked list.
     */
    function LinkedList() {
        this._first = null;
        this._last = null;
        this._length = 0;
    }
    Object.defineProperty(LinkedList.prototype, "isEmpty", {
        /**
         * Whether the list is empty.
         *
         * #### Complexity
         * Constant.
         */
        get: function () {
            return this._length === 0;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(LinkedList.prototype, "length", {
        /**
         * The
         */
        get: function () {
            return this._length;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(LinkedList.prototype, "isEmpty", {
        /**
         * Whether the list is empty.
         *
         * #### Complexity
         * Constant.
         */
        get: function () {
            return this._length === 0;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(LinkedList.prototype, "length", {
        /**
         * The
         */
        get: function () {
            return this._length;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(LinkedList.prototype, "isEmpty", {
        /**
         * Whether the list is empty.
         *
         * #### Complexity
         * Constant.
         */
        get: function () {
            return this._length === 0;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(LinkedList.prototype, "length", {
        /**
         * The
         */
        get: function () {
            return this._length;
        },
        enumerable: true,
        configurable: true
    });

    return LinkedList;
})(Private);
```

/**
 * Insert a value after a specific node in the list.
 *
 * @param value - The value to insert before the reference node.
 * @param ref - The reference node of interest. If this is `null`, the value will be added to the beginning of the list.
 * @returns The list node which holds the value.
 *
 * #### Complexity
 * Constant.
 */
LinkedList.prototype.insertBefore = function (value, ref) {
    if (!ref || ref === this._first) {
        return this.addFirst(value);
    }
    if (!(ref instanceof Private.LinkedListNode) || ref.list !== this) {
        throw new Error('Reference node is not owned by the list.');
    }
    var node = new Private.LinkedListNode(this, value);
    var _ref = ref;
    var prev = _ref.prev;
    node.prev = prev;
    _ref.prev = node;
    prev.next = node;
    this._length++;
    return node;
};

/**
 * Insert a value before a specific node in the list.
 *
 * @param value - The value to add to the beginning of the list.
 * @returns The list node which holds the value.
 *
 * #### Complexity
 * Constant.
 */
LinkedList.prototype.addFirst = function (value) {
    var node = new Private.LinkedListNode(this, value);
    if (!this._first) {
        this._first = node;
        this._last = node;
    }
    else {
        node.next = this._first;
        this._first.prev = node;
        this._first = node;
    }
    this._length++;
    return node;
};

/**
 * Add a value to the end of the list.
 *
 * @returns The list node which holds the value.
 *
 * #### Complexity
 * Constant.
 */
LinkedList.prototype.addLast = function (value) {
    var node = new Private.LinkedListNode(this, value);
    if (!this._last) {
        this._first = node;
        this._last = node;
    }
    else {
        this._last.next = node;
        this._last = node;
    }
    this._length++;
    return node;
};

/**
 * Create a reverse iterator over the values in the list.
 *
 * @returns A new iterator starting with the first value.
 *
 * #### Complexity
 * Constant.
 */
LinkedList.prototype.iter = function () {
    return LinkedList.ForwardValueIterator(this._first);
};

/**
 * Create a reverse iterator over the values in the list.
 *
 * @returns A new iterator starting with the last value.
 *
 * #### Complexity
 * Constant.
 */
LinkedList.prototype.retro = function () {
    return new LinkedList.RetroValueIterator(this._last);
};

/**
 * Create an iterator over the nodes in the list.
 *
 * @returns A new iterator starting with the first node.
 *
 * #### Complexity
 * Constant.
 */
LinkedList.prototype.nodes = function () {
    return new LinkedList.ForwardNodeIterator(this._first);
};

/**
 * Create an iterator over the nodes in the list.
 *
 * @returns A new iterator starting with the last node.
 *
 * #### Complexity
 * Constant.
 */
LinkedList.prototype.retroNodes = function () {
    return new LinkedList.RetroNodeIterator(this._last);
};
var __extends = (this && this.__extends) || (function () {
    var extendStatics = function (d, b) {
        extendStatics = Object.setPrototypeOf
            || ({__proto__:[]} instanceof Array && function (d, b) {
                d.__proto__ = b
            }) || function (d, b) {
                for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]
            }; return extendStatics(d, b)
    }
    return extendStatics
})() || function () {
    function extendStatics(d, b) {
        extendStatics = Object.setPrototypeOf
            || ({__proto__:[]} instanceof Array && function (d, b) {
                d.__proto__ = b
            }) || function (d, b) {
                for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]
            }; return extendStatics(d, b)
    }
    return extendStatics
}()

var Private;
(function (Private) {
    var LinkedListNode = (function () {
        function LinkedListNode(list, value) {
            this.list = list;
            this.value = value;
            this.prev = null;
            this.next = null;
            this.iter = function () {
                // Get an iterator over the object's values.
                var node = this._node;
                return node;
            };
            this.clone = function () {
                return new LinkedListNode(this._node);
            };
            this.iter = function () {
                return this;
            };
            return this;
        };
        LinkedListNode.prototype.clone = function () {
            return new LinkedListNode(this._node);
        };
        LinkedListNode.prototype.iter = function () {
            return this;
        };
        return LinkedListNode;
    }());
    var LinkedList = (function () {
        function LinkedList() {
            this.list = null;
            this._node = null;
            this.iter = this._node;
            this.clone = function () {
                return new LinkedList(this._node);
            };
            this.iter = function () {
                return this;
            };
            return this;
        };
        LinkedList.prototype.clone = function () {
            return new LinkedList(this._node);
        };
        LinkedList.prototype.iter = function () {
            return this;
        };
        return LinkedList;
    }());
    LinkedList.ListNode = LinkedListNode;
    LinkedList.ListNode.prototype.clone = function () {
        return new LinkedListNode(this._node);
    };
    LinkedList.ListNode.prototype.iter = function () {
        return this;
    };
    return LinkedList;
})(Private || (Private = {}));

var LinkedList = exports.LinkedList = LinkedList;

var LinkedList.ForwardNodeIterator = (function () {
    function ForwardNodeIterator(node) {
        this._node = node;
    }
    ForwardNodeIterator.prototype.iter = function () {
        return this;
    };
    ForwardNodeIterator.prototype.next = function () {
        if (!this._node) {
            return undefined;
        }
        var node = this._node;
        this._node = node.next;
        return node;
    };
    ForwardNodeIterator.prototype.clone = function () {
        return new ForwardNodeIterator(this._node);
    };
    return ForwardNodeIterator;
}());

var LinkedList.RetroNodeIterator = (function () {
    function RetroNodeIterator(node) {
        this._node = node;
    }
    RetroNodeIterator.prototype.iter = function () {
        return this;
    };
    RetroNodeIterator.prototype.next = function () {
        if (!this._node) {
            return undefined;
        }
        var node = this._node;
        this._node = node.prev;
        return node;
    };
    RetroNodeIterator.prototype.clone = function () {
        return new RetroNodeIterator(this._node);
    };
    return RetroNodeIterator;
}());

var LinkedList.RetroValueIterator = (function () {
    function RetroValueIterator(node) {
        this._node = node;
    }
    RetroValueIterator.prototype.iter = function () {
        return this;
    };
    RetroValueIterator.prototype.next = function () {
        if (!this._node) {
            return undefined;
        }
        var node = this._node;
        this._node = node.value;
        return node;
    };
    RetroValueIterator.prototype.clone = function () {
        return new RetroValueIterator(this._node);
    };
    return RetroValueIterator;
}());

var LinkedList.ForwardValueIterator = (function () {
    function ForwardValueIterator(node) {
        this._node = node;
    }
    ForwardValueIterator.prototype.iter = function () {
        return this;
    };
    ForwardValueIterator.prototype.next = function () {
        if (!this._node) {
            return undefined;
        }
        var node = this._node;
        this._node = node.next;
        return node;
    };
    ForwardValueIterator.prototype.clone = function () {
        return new ForwardValueIterator(this._node);
    };
    return ForwardValueIterator;
}());

var Private.LinkedListNode = LinkedListNode;

WEBPACK FOOTER
// ../node_modules/@phosphor/collections/lib/linkedlist.js
// module id = 330
// module chunks = 0
"use strict";
var __extends = (function () {
    var extendStatics = function (d, b) {
        extendStatics = Object.setPrototypeOf
            || ({__proto__:[]} instanceof Array && function (d, b) {
                d.__proto__ = b
            }) || function (d, b) {
                for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]
            }; return extendStatics(d, b)
}());
    return extendStatics
})();
    Private.LinkedListNode = LinkedListNode;
})(Private || (Private = {}));

///
// WEBPACK FOOTER
// ./node_modules/@phosphor/collections/lib/linkedlist.js
// module id = 330
// module chunks = 0
"use strict";
var __extends = (function () {
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                d.__proto__ = b
            }) || function (d, b) {
                for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]
            }; return extendStatics(d, b)
}());
    return extendStatics
})();
    Private.LinkedListNode = LinkedListNode;
})(Private || (Private = {}));

Open Source Used In Secure Workload 3.6.1.1 20407
Object.defineProperty(BoxPanel.prototype, "alignment", {
    /**
     * Get the content alignment for the box panel.
     */
    get: function () {
        return this.layout.alignment;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "direction", {
    /**
     * Get the layout direction for the box panel.
     */
    get: function () {
        return this.layout.direction;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "spacing", {
    /**
     * Get the inter-element spacing for the box panel.
     */
    get: function () {
        return this.layout.spacing;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "stretch", {
    /**
     * Get the box panel stretch factor for the given widget.
     */
    get: function (msg) {
        return msg.child.hasClass('p-BoxPanel-child');
    },
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "stretchFactor", {
    /**
     * Get the box panel stretch factor for the given widget.
     */
    get: function () {
        return this.layout.stretch;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "stretchFactor", {
    /**
     * Get the box panel stretch factor for the given widget.
     */
    get: function () {
        return this.layout.stretch;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "stretchFactor", {
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     * Get the box panel stretch factor for the given widget.
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    enumerable: true,
    configurable: true
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    /**
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        return this.layout.stretch;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "stretchFactor", {
    /**
     * Get the box panel stretch factor for the given widget.
     */
    get: function () {
        return this.layout.stretch;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "stretchFactor", {
    /**
     * Get the box panel stretch factor for the given widget.
     */
    get: function () {
        return this.layout.stretch;
    },
    enumerable: true,
    configurable: true
});
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    /**
     * Get the box panel stretch factor for the given widget.
     */
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        return this.layout.stretch;
    },
    enumerable: true,
    configurable: true
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    },
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    /**
     * Get the box panel stretch factor for the given widget.
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    },
    enumerable: true,
    configurable: true
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    /**
     * Get the box panel stretch factor for the given widget.
     */
    get: function () {
        return this.layout.stretch;
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(BoxPanel.prototype, "stretchFactor", {
    /**
     * Get the box panel stretch factor for the given widget.
     */
    get: function () {
        return this.layout.stretch;
    },
    enumerable: true,
BoxPanel;
/**
 * The namespace for the module implementation details.
 */

var Private;

/**
 * The namespace for the module implementation details.
 */

var Private;

(function (Private) {
    /**
     * Create a box layout for the given panel options.
     */
    function createLayout(options) {
        return options.layout || new boxlayout_1.BoxLayout(options);
    }

    Private.createLayout = createLayout;
})(Private || (Private = {}));


//////////////////
// WEBPACK FOOTER
// ../node_modules/@phosphor/widgets/lib/boxpanel.js
// module id = 331
// module chunks =

/*--------------------------------------------
---------------------------------
| Copyright (c) 2014-2017, PhosphorJS Contributors
|
| Distributed under the terms of the BSD 3-Clause License.
|----------------------------------------------------------------------------*/

var algorithm_1 = require("@phosphor/algorithm");
var coreutils_1 = require("@phosphor/coreutils");
var commands_1 = require("@phosphor/commands");
var domutils_1 = require("@phosphor/domutils");
var virtualdom_1 = require("@phosphor/virtualdom");
var widget_1 = require("./widget");

/**
 * A widget which displays command items as a searchable palette.
 */

var CommandPalette = (function (_super) {
    __extends(CommandPalette, _super);
    /**
     * Construct a new command palette.
     *
     * @param options - The options for initializing the palette.
     */
    function CommandPalette(options) {
        var _this = _super.call(this, { node: Private.createNode() }) || this;
        _this._activeIndex = -1;
        _this._items = [
        ];
        _this._results = null;
        _this.addClass('p-CommandPalette');
        _this.setFlag(widget_1.Widget.Flag.DisallowLayout);
        _this.commands = options.commands;
        _this.renderer = options.renderer || CommandPalette.defaultRenderer;
        _this.commands.commandChanged.connect(_this._onGenericChange, _this);
        _this.commands.keyBindingChanged.connect(_this._onGenericChange, _this);
        return _this;
    }

    /**
     * Dispose of the resources held by the widget.
     */
    CommandPalette.prototype.dispose = function () {
        _super.prototype.dispose.call(this);
    };

    Object.defineProperty(CommandPalette.prototype, "searchNode", {
        /**
         * The command palette search node.
         *
         * #### Notes
         * This is the node which contains the search-related elements.
         */
        get: function () {
            return this.node.getElementsByClassName('p-CommandPalette-search')[0];
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(CommandPalette.prototype, "inputNode", {
        /**
         * The command palette input node.
         *
         * #### Notes
         * This is the actual input node for the search area.
         */
        get: function () {
            return this.node.getElementsByClassName('p-CommandPalette-input')[0];
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(CommandPalette.prototype, "contentNode", {
        /**
         * A read-only array of the command items in the palette.
         */
        get: function () {
            return this.node.getElementsByClassName('p-CommandPalette-content')[0];
        },
        enumerable: true,
        configurable: true
    });

    CommandPalette.prototype.addItem = function (options) {
        // Create a new command item for the
```javascript
options;
var item = Private.createItem(this.commands, options);

this._items.push(item); // Add the item to the array.

// Refresh the search results.
this.refresh(); // Return the item added to the palette.

// Remove the item from the command palette.
CommandPalette.prototype.removeItem = function (item) {
    this.removeItemAt(this._items.indexOf(item));
};

// Remove the item at a given index from the command palette.
CommandPalette.prototype.removeItemAt = function (index) {
    var item = algorithm_1.ArrayExt.removeAt(this._items, index);
    // Bail if the index is out of range.
    if (item) {
        // Remove all items from the command palette.
        this.removeItemAt(this._items.indexOf(item));
    }
    // Remove the item from the array.
    var item = algorithm_1.ArrayExt.removeAt(this._items, index);
    // Bail if there is nothing to remove.
    if (this._items.length === 0) {
        // Clear the array of items.
        this._items.length = 0;
        // Refresh the search results.
        this.refresh();
    }
    return item;
}

var item = this.inputNode;
// Ensure the search results are generated.
var results = this._results;
if (!results) {
    // Generate and store the new search results.
    return;
}

// Bail if the index is out of range.
if (!item) {
    return;
}

// If there is nothing to remove.
if (this._items.length === 0) {
    return;
}

// Refresh the search results.
this.refresh();

// Check if there is a query and results.
if (results.length === 0) {
    return;
}

// If there is a query but no results, clear the content.
if (results.length === 0) {
    this._activeIndex = (query ? algorithm_1.ArrayExt.findIndex(results, Private.canActivate) : -1);
}

// Create the render content for the search results.
this._activeIndex = query ? algorithm_1.ArrayExt.findIndex(results, Private.canActivate) : -1;
this.renderer.renderEmptyMessage({ query: query });

// Handle the DOM events for the command palette.
CommandPalette.prototype.handleEvent = function (event) {
    switch (event.type) {
        case 'click':
            this._evtClick(event);
            break;
        case 'keydown':
            this._evtKeyDown(event);
            break;
        case 'blur':
            this._toggleFocused();
            break;
        case 'focus':
            break;
    }
}
```

```javascript
/**
 * Create the render content for the empty message node.
 * 
 * @param data - The data to use for rendering the message.
 * 
 * @returns A virtual element representing the message.
 */
Renderer.prototype.renderEmptyMessage = function (data) {
    var content = this.formatEmptyMessage(data);
    return virtualdom_1.h.li({
        className: 'p-CommandPalette-emptyMessage',
        content: content
    });
};
/**
 * Render the shortcut for a command palette item.
 * 
 * @param data - The data to use for rendering the shortcut.
 * 
 * @returns A virtual element representing the shortcut.
 */
Renderer.prototype.renderItemShortcut = function (data) {
    var content = this.formatItemShortcut(data);
    return virtualdom_1.h.div({
        className: 'p-CommandPalette-itemShortcut',
        content: content
    });
};
/**
 * Render the label for a command palette item.
 * 
 * @param data - The data to use for rendering the label.
 * 
 * @returns A virtual element representing the label.
 */
Renderer.prototype.renderItemLabel = function (data) {
    var content = this.formatItemLabel(data);
    return virtualdom_1.h.div({
        className: 'p-CommandPalette-itemLabel',
        content: content
    });
};
/**
 * Render the caption for a command palette item.
 * 
 * @param data - The data to use for rendering the caption.
 * 
 * @returns A virtual element representing the caption.
 */
Renderer.prototype.renderItemCaption = function (data) {
    var content = this.formatItemCaption(data);
    return virtualdom_1.h.div({
        className: 'p-CommandPalette-itemCaption',
        content: content
    });
};
/**
 * Render the empty message for a command palette.
 * 
 * @returns A virtual element representing the message.
 */
Renderer.prototype.renderEmptyMessage = function (data) {
    var content = this.formatEmptyMessage(data);
    return virtualdom_1.h.li({
        className: 'p-CommandPalette-emptyMessage',
        content: content
    });
};
```

Create the render content for the item caption node.

*\n* Render.prototype.formatItemCaption = function (data) {\n  return data.item.caption;
}

Create the render content for the item shortcut node.

*\n* Render.prototype.formatItemShortcut = function (data) {\n  return data.item.keyBinding;
}

Create the render content for the item label node.

*\n* Render.prototype.formatItemLabel = function (data) {\n  if (!data.indices || data.indices.length === 0) {\n    return data.item.label;
  }\n  return algorithm_1.StringExt.highlight(data.item.label, data.indices, virtualdom_1.h.mark);
}

Create the render content for the item caption node.

*\n* Render.prototype.formatEmptyMessage = function (query) {\n  return "No commands found that match '" + query + "'";
}

Create the render content for the item caption node.

*\n* Render.prototype.formatEmptyMessage = function (data) {\n  return !data.commands ? "No commands found." : "No commands found that match '" + query + "'";
}

Create the render content for the item caption node.

*\n* Render.prototype.formatEmptyMessage = function (query) {\n  return "No results found that match '" + query + "'";
}

Create the render content for the item caption node.

*\n* Render.prototype.formatEmptyMessage = function (data) {\n  return !data.commands ? "No commands found." : "No commands found that match '" + query + "'";
}

Create the render content for the item caption node.

*\n* Render.prototype.formatEmptyMessage = function (query) {\n  return "No matches found for query: " + query;
}
Set up the search results array.

```javascript
var results = [];
// Iterate over each score in the array.
for (var visited.
    var visited = new Array(scores.length);
    algorithm_1.ArrayExt.fill(visited, false);
    //
    scores.
```
```
var a = scores[i], item = _a.item, categoryIndices = _a.categoryIndices;

// Extract the category for the current item.
var category = item.category;

// Add the header result for the category.
results.push({ type: 'header', category: category, indices: categoryIndices });

// Find the rest of the scores with the same category.
for (var j = i; j < n; ++j) {
    var b = scores[j], item_1 = b.item, labelIndices = b.labelIndices;

    // Ignore an item with a different category.
    if (item_1.category !== category) {
        continue;
    }

    // Create the result for the score.
    results.push({
        type: 'item',
        item: item_1,
        indices: labelIndices
    });

    // Mark the score as processed.
    visited[j] = true;
}

// Return the final results.
return results;
```

```javascript
function matchItems(items, event) {
    // Look up the target of the event.
    var target = event.target;
    // Bail if there is no target.
    if (!target) {
        return null;
    }
    // Look up the current target of the event.
    var currentTarget = eventsetCurrentTarget;
    // Bail if there is no current target.
    if (!currentTarget) {
        return null;
    }
    // There are some third party libraries that cause the `target` to
    // be detached from the DOM before Phosphor can process the event.
    // If that happens, search for a new target node by point. If that
    // node is still dangling, bail.
    if (currentTarget.contains(target)) {
        return null;
    }
    // Create an item from the options.
    var item = Private.createItem(options, id);
    // Add the item to the menu.
    this.menu.addItem(item);
    // The results are sorted by DOM level, specificity, and rank.
    return __assign({}, options, { selector: selector, rank: rank, id: id });
}
```

DockPanel.prototype.dispose = function () {
    return this._releaseMouse();
    // Hide the overlay.
    this.overlay.hide(0);
    // Cancel a drag if one is in progress.
    if (this._drag) {
        this._drag.dispose();
    }
    // Dispose of the base class.
    _super.prototype.dispose.call(this);
    Object.defineProperty(DockPanel.prototype, "layoutModified\", {
        /**
         * A signal emitted when the layout configuration is modified.
         */
        get: function () {
            return this._layoutModified;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "isEmpty\", {
        /**
         * Whether the dock panel is empty.
         */
        get: function () {
            return this.layout.isEmpty;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "renderer\", {
        /**
         * The renderer used by the dock panel.
         */
        get: function () {
            return this.layout.renderer;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "mode\", {
        /**
         * Set
         * the mode for the dock panel.
         */
        get: function () {
            return this._mode;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "spacing\", {
        /**
         * Set the spacing between the widgets.
         */
        get: function () {
            return this.layout.spacing;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "selectedWidgets\", {
        /**
         * Select a specific widget in the dock panel.
         */
        get: function () {
            return this.layout.selectedWidgets();
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "handles\", {
        /**
         * Create an iterator over the handles in the panel.
         */
        get: function () {
            return this.layout.handles();
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "tabBars\", {
        /**
         * Create an iterator over the tab bars in the panel.
         */
        get: function () {
            return this.layout.tabBars();
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "selectedUserWidgets\", {
        /**
         * Create an iterator over the selected user widgets in the panel.
         */
        get: function () {
            return this.layout.selectedUserWidgets();
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "/widgets\", {
        /**
         * Create a new iterator over the user widgets in the panel.
         */
        get: function () {
            return this.layout.widgets();
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "/\", {
        /**
         * A signal emitted whenever the current layout configuration may have changed.
         */
        get: function () {
            return this._layoutModified;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "isModified\", {
        /**
         * Whether the layout configuration is modified.
         */
        get: function () {
            return this.layout.isModified();
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "rendered\", {
        /**
         * Get the rendered children.
         */
        get: function () {
            return this.layout.rendered;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "modeModified\", {
        /**
         * A signal emitted when the mode configuration is modified.
         */
        get: function () {
            return this._modeModified;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "/\", {
        /**
         * A signal emitted if the mode changes.
         */
        get: function () {
            return this._modeModified;
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(DockPanel.prototype, "spacingModified\", {
        /**
         * A signal emitted if the spacing configuration is modified.
         */
        get: function () {
            return this._spacingModified;
        },
        enumerable: true,
        configurable: true
    });
(!tabBar) {\r\n
throw new Error('Widget is not contained in the dock panel.');\r\n
}\r\n
// Ensure the
widget is the current widget.\r\n
tabBar.currentTitle = widget.title;\r\n };\r\n /**\r\n * Activate a specified
widget in the dock panel.\r\n *\r\n * @param widget - The widget of interest.\r\n *\r\n * #### Notes\r\n
* This will select and activate the given widget.\r\n */\r\n DockPanel.prototype.activateWidget = function
(widget) {\r\n
this.selectWidget(widget);\r\n
widget.activate();\r\n };\r\n /**\r\n * Save the current
layout configuration of the dock panel.\r\n *\r\n * @returns A new config object for the current layout state.\r\n
*\r\n * #### Notes\r\n * The return value can be provided to the `restoreLayout` method\r\n * in order to
restore the layout to its current configuration.\r\n */\r\n DockPanel.prototype.saveLayout = function () {\r\n
return this.layout.saveLayout();\r\n };\r\n /**\r\n * Restore the layout to a previously saved configuration.\r\n
*\r\n * @param config - The layout configuration to restore.\r\n *\r\n * #### Notes\r\n * Widgets which
currently belong to the layout but which are not\r\n * contained in the config will be unparented.\r\n *\r\n *
The dock panel automatically reverts to `'multiple-document'`\r\n * mode when a layout config is restored.\r\n
*/\r\n DockPanel.prototype.restoreLayout = function (config) {\r\n
// Reset the mode.\r\n
this._mode =
'multiple-document';\r\n
// Restore the layout.\r\n
this.layout.restoreLayout(config);\r\n
// Flush the
message loop on IE and Edge to prevent flicker.\r\n
if (domutils_1.Platform.IS_EDGE ||
domutils_1.Platform.IS_IE) {\r\n
messaging_1.MessageLoop.flush();\r\n
}\r\n
// Schedule an emit of
the layout modified signal.\r\n
messaging_1.MessageLoop.postMessage(this, Private.LayoutModified);\r\n
};\r\n /**\r\n * Add a widget to the dock panel.\r\n *\r\n * @param widget - The widget to add to the dock
panel.\r\n *\r\n * @param options - The additional options for adding the widget.\r\n *\r\n * ####
Notes\r\n * If the panel is in single document mode, the options are ignored\r\n * and the widget is always
added as tab in the hidden tab bar.\r\n */\r\n DockPanel.prototype.addWidget = function (widget, options) {\r\n
if (options === void 0) { options = {}; }\r\n
// Add the widget to the layout.\r\n
if (this._mode ===
'single-document') {\r\n
this.layout.addWidget(widget);\r\n
}\r\n
else {\r\n
this.layout.addWidget(widget, options);\r\n
}\r\n
// Schedule an emit of the layout modified signal.\r\n
messaging_1.MessageLoop.postMessage(this, Private.LayoutModified);\r\n };\r\n /**\r\n * Process a message
sent to the widget.\r\n *\r\n * @param msg - The message sent to the widget.\r\n */\r\n
DockPanel.prototype.processMessage = function (msg) {\r\n
if (msg.type === 'layout-modified') {\r\n
this._layoutModified.emit(undefined);\r\n
}\r\n
else {\r\n
_super.prototype.processMessage.call(this,
msg);\r\n
}\r\n };\r\n /**\r\n * Handle the DOM events for the dock panel.\r\n *\r\n * @param event The DOM event sent to the panel.\r\n *\r\n * #### Notes\r\n * This method implements the DOM
`EventListener` interface and is\r\n * called in response to events on the panel's DOM node. It should\r\n * not
be called directly by user code.\r\n */\r\n DockPanel.prototype.handleEvent = function (event) {\r\n
switch
(event.type) {\r\n
case 'p-dragenter':\r\n
this._evtDragEnter(event);\r\n
break;\r\n
case 'p-dragleave':\r\n
this._evtDragLeave(event);\r\n
break;\r\n
case 'p-dragover':\r\n
this._evtDragOver(event);\r\n
break;\r\n
case 'p-drop':\r\n
this._evtDrop(event);\r\n
break;\r\n
case 'mousedown':\r\n
this._evtMouseDown(event);\r\n
break;\r\n
case 'mousemove':\r\n
this._evtMouseMove(event);\r\n
break;\r\n
case 'mouseup':\r\n
this._evtMouseUp(event);\r\n
break;\r\n
case 'keydown':\r\n
this._evtKeyDown(event);\r\n
break;\r\n
case 'contextmenu':\r\n
event.preventDefault();\r\n
event.stopPropagation();\r\n
break;\r\n
}\r\n };\r\n /**\r\n *
A message handler invoked on a `'before-attach'` message.\r\n */\r\n DockPanel.prototype.onBeforeAttach =
function (msg) {\r\n
this.node.addEventListener('p-dragenter', this);\r\n
this.node.addEventListener('pdragleave', this);\r\n
this.node.addEventListener('p-dragover', this);\r\n
this.node.addEventListener('p-drop',
this);\r\n
this.node.addEventListener('mousedown', this);\r\n };\r\n /**\r\n * A message handler invoked
on an `'after-detach'` message.\r\n */\r\n DockPanel.prototype.onAfterDetach = function (msg) {\r\n
this.node.removeEventListener('p-dragenter', this);\r\n
this.node.removeEventListener('p-dragleave', this);\r\n
this.node.removeEventListener('p-dragover', this);\r\n
this.node.removeEventListener('p-drop', this);\r\n
this.node.removeEventListener('mousedown', this);\r\n
this._releaseMouse();\r\n };\r\n /**\r\n * A

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DockPanel.prototype.onChildAdded = function(msg) { var child = msg.child; if (Private.isGeneratedTabBarProperty.get(child)) { return; } // Ignore the generated tab bars. }

DockPanel.prototype.onChildRemoved = function(msg) { var child = msg.child; if (Private.isGeneratedTabBarProperty.get(child)) { return; } // Remove the widget class from the child. }

DockPanel.prototype.evtdragEnter = function(event) { // Bail if the proposed action is to do nothing.
if (event.mimeData.hasData('application/vnd.phosphor.widget-factory')) {
    event.preventDefault();
    event.stopPropagation();
    return;
}

DockPanel.prototype.evtdragLeave = function(event) { // Mark the event as handled.
}

DockPanel.prototype.evtdragOver = function(event) { // Show the drop indicator overlay and update the drop target.
// action based on the drop target zone under the mouse.
if (this._showOverlay(event.clientX, event.clientY) === 'invalid') {
    event.dropAction = 'none';
}

DockPanel.prototype.evtdragDrop = function(event) { // Mark the event as handled.
}

DockPanel.prototype.evtdragOut = function(event) { // Mark the event as handled.
}

DockPanel.prototype.evtdragend = function(event) { // Bail if the drop zone is invalid.
var mimeData = event.mimeData;
var factory = mimeData.getData('application/vnd.phosphor.widget-factory');
if (typeof factory !== 'function') {
    var widget = factory();
    if (!(widget instanceof widget_1.Widget)) {
        event.dropAction = 'none';
        return;
    }
    // Bail if the factory mime type has invalid data.
    var mimeData = event.mimeData;
    var factory = mimeData.getData('application/vnd.phosphor.widget-factory');
    if (typeof factory !== 'function') {
        event.dropAction = 'none';
        return;
    }
}

DockPanel.prototype.evtdragLeave = function(event) { // Bail if the proposed action is to do nothing.
if (event.mimeData.hasData('application/vnd.phosphor.widget-factory')) {
    event.preventDefault();
    event.stopPropagation();
    return;
}

DockPanel.prototype.evtdragOver = function(event) { // Show the drop indicator overlay and update the drop target.
// action based on the drop target zone under the mouse.
if (this._showOverlay(event.clientX, event.clientY) === 'invalid') {
    event.dropAction = 'none';
}

DockPanel.prototype.evtdragDrop = function(event) { // Mark the event as handled.
}

DockPanel.prototype.evtdragOut = function(event) { // Mark the event as handled.
}

DockPanel.prototype.evtdragend = function(event) { // Bail if the drop zone is invalid.
    var mimeData = event.mimeData;
    var factory = mimeData.getData('application/vnd.phosphor.widget-factory');
    if (typeof factory !== 'function') {
        var widget = factory();
        if (!(widget instanceof widget_1.Widget)) {
            event.dropAction = 'none';
            return;
        }
        // Bail if the factory mime type has invalid data.
        var mimeData = event.mimeData;
        var factory = mimeData.getData('application/vnd.phosphor.widget-factory');
        if (typeof factory !== 'function') {
            var widget = factory();
            if (!(widget instanceof widget_1.Widget)) {
                event.dropAction = 'none';
                return;
            }
            // Bail if the drop target zone under the mouse.
            if (this._showOverlay(event.clientX, event.clientY) === 'invalid') {
                event.dropAction = 'none';
                return;
            }
            event.dropAction = event.proposedAction;
        } // Accept the proposed drop action.
    } // Activate the dropped widget.
DockPanel.prototype._EvtKeyDown = function (event) {
    // Stop input events during drag.
    event.preventDefault();
    event.stopPropagation();
    // Release the mouse if 'Escape' is pressed.
    if (event.keyCode === 27) {
        // Finalize the mouse release.
        this._releaseMouse();
        // Schedule an emit of the layout modified signal.
        messaging_1.MessageLoop.postMessage(this, Private.LayoutModified);
    }
}
DockPanel.prototype._EvtMouseMove = function (event) {
    // Do nothing if the left mouse button is not pressed.
    if (event.button !== 0) {
        return;
    }
    // Find the handle which contains the mouse target, if any.
    var layout = this.layout;
    var target = event.target;
    var handle = algorithm_1.find(layout.handles(), function (handle) { return handle.contains(target); });
    if (!handle) {
        return;
    }
    // Stop the event when a handle is pressed.
    event.preventDefault();
}
DockPanel.prototype._EvtMouseMoveUp = function (event) {
    // Bail early if no drag is in progress.
    if (!this._pressData) {
        return;
    }
    // Clear the override cursor.
    this._pressData = null;
    // Remove the extra document listeners.
    document.removeEventListener('keydown', this, true);
    document.addEventListener('mouseup', this, true);
    document.addEventListener('contextmenu', this, true);
    // Compute the desired offset position for the handle.
    var rect = handle.getBBox();
    var deltaX = event.clientX - rect.left;
    var deltaY = event.clientY - rect.top;
    // Override the cursor and store the press data.
    var style = window.getComputedStyle(handle);
    var override = dragdrop_1.Drag.overrideCursor(style.cursor);
    this._pressData = { handle: handle, deltaX: deltaX, deltaY: deltaY, override: override };
}
DockPanel.prototype._EvtMouseDown = function (event) {
    // Do nothing if the left mouse button is not pressed.
    if (event.button !== 0) {
        return;
    }
    // Find the handle which contains the mouse target, if any.
    var layout = this.layout;
    var target = event.target;
    var handle = algorithm_1.find(layout.handles(), function (handle) { return handle.contains(target); });
    if (!handle) {
        return;
    }
    // Stop the event when releasing a handle.
    event.preventDefault();
    event.stopPropagation();
    // Finalize the mouse release.
    this._releaseMouse();
    // Schedule an emit of the layout modified signal.
    messaging_1.MessageLoop.postMessage(this, Private.LayoutModified);
    // Release the mouse grab for the dock panel.
    DockPanel.prototype._EvtMouseUp = function (event) {
        // Bail early if no drag is in progress.
        if (!this._pressData) {
            return;
        }
        // Clear the override cursor.
        this._pressData = null;
        // Remove the extra document listeners.
        document.removeEventListener('keydown', this, true);
        document.removeEventListener('mouseup', this, true);
        document.removeEventListener('contextmenu', this, true);
    }
}
// Do nothing if a drag is already in progress.
if (this._drag) {
    return;
}

// Release the tab bar's hold on the mouse.
sender.releaseMouse();

// Extract the data from the args.
var title = args.title, tab = args.tab, clientX = args.clientX, clientY = args.clientY;

// Setup the mime data for the drag operation.
var mimeData = new coreutils_1.MimeTypeData();
var factory = function () {
    return title.owner;
};
var mimeData.setData('application/vnd.phosphor.widget-factory', factory);

// Create the drag image for the drag operation.
var dragImage = tab.cloneNode(true);

// Create the cleanup callback.
var cleanup = (function () {
    this._drag = null;
    tab.classList.remove('p-mod-hidden');
    });

// Start the drag operation and cleanup when done.
this._drag.start(clientX, clientY);
then(cleanup);

DockPanel.(function (DockPanel) {
    function Overlay() {
        this.node = document.createElement('div');
            handle.className = 'p-DockPanel-handle';
            return handle;
        }
        /**
         * Create a new handle node for use with a dock panel.
         *
         * @returns A new handle node for a dock panel.
         */
        Overlay.prototype.createHandle = function () {
            var handle = document.createElement('div');
            handle.className = 'p-DockPanel-handle';
            return handle;
        };
        /**
         * Create a new tab bar for use with a dock panel.
         *
         * @returns A new tab bar for a dock panel.
         */
        Overlay.prototype.createTabBar = function () {
            var bar = new Overlay();
            bar.addClass('p-DockPanel-tabBar');
            return bar;
        };
        /**
         * Create a new overlay for use with a dock panel.
         *
         * @returns A new overlay for a dock panel.
         */
        Overlay.prototype.createOverlay = function () {
            var overlay = new Overlay();
            overlay.addClass('p-DockPanel-overlay');
            return overlay;
        };
        /**
         * Construct a new overlay.
         *
         * @returns A new overlay.
         */
        Overlay.prototype.newOverlay = function () {
            var overlay = new Overlay();
            return overlay;
        };
        /**
         * Show the overlay using the given overlay geometry.
         *
         * @param param - The desired geometry for the overlay.
         */
        Overlay.prototype.show = function (geo) {
            // Update the position of the overlay.
            var style = this.node.style;
                style.top = geo.top + 'px';
                style.left = geo.left + 'px';
                style.right = geo.right + 'px';
                style.bottom = geo.bottom + 'px';
                // Clear any pending hide timer.
                clearTimeout(this._timer);
                this._hidden = true;
                this.node = document.createElement('div');
                this.node.classList.add('p-mod-hidden');
                this._hidden = true;
                this.node.classList.add('p-mod-hidden');
                return;
            }
            // If the overlay is already visible, we're done.
            if (!this._hidden) {
                return;
            }
            // Clear the hidden flag.
            this._hidden = false;
            // Finally, show the overlay.
            this.node.classList.remove('p-mod-hidden');
            return;
        };
        /**
         * Hide the overlay.
         *
         * @param param - The delay (in ms) before hiding the overlay.
         */
        Overlay.prototype.hide = function (delay) {
            var this = this;
            // Do nothing if a drag is already in progress.
            if (this._drag) {
                return;
            }
            // Clear the hidden flag.
            this._hidden = true;
            this.node.classList.add('p-mod-hidden');
            return;
        };
        /**
         * Show the _couplet_.
         *
         * @param geo - The desired geometry for the _couplet_.
         */
        Overlay.prototype.show = function (geo) {
            // Update the position of the _couplet_.
            var style = this.node.style;
                style.top = geo.top + 'px';
                style.left = geo.left + 'px';
                style.right = geo.right + 'px';
                style.bottom = geo.bottom + 'px';
                // Clear any pending hide timer.
                clearTimeout(this._timer);
                this._hidden = true;
                this.node = document.createElement('div');
                this.node.classList.add('p-mod-hidden');
                return;
            }
            // If the _couplet_ is already visible, we're done.
            if (!this._hidden) {
                return;
            }
            // Clear the hidden flag.
            this._hidden = false;
            // Finally, show the _couplet_.
            this.node.classList.remove('p-mod-hidden');
            return;
        };
        /**
         * Hide the _couplet_.
         *
         * @param param - The delay (in ms) before hiding the _couplet_.
         */
        Overlay.prototype.hide = function (delay) {
            var this = this;
            // Do nothing if a drag is already in progress.
            if (this._drag) {
                return;
            }
            // Clear the hidden flag.
            this._hidden = true;
            this.node.classList.add('p-mod-hidden');
            return;
        };
        /**
         * Show the _couplet_.
         *
         * @param geo - The desired geometry for the _couplet_.
         */
        Overlay.prototype.show = function (geo) {
            // Update the position of the _couplet_.
            var style = this.node.style;
                style.top = geo.top + 'px';
                style.left = geo.left + 'px';
                style.right = geo.right + 'px';
                style.bottom = geo.bottom + 'px';
                // Clear any pending hide timer.
                clearTimeout(this._timer);
                this._hidden = true;
                this.node = document.createElement('div');
                this.node.classList.add('p-mod-hidden');
                return;
            }
            // If the _couplet_ is already visible, we're done.
            if (!this._hidden) {
                return;
            }
            // Clear the hidden flag.
            this._hidden = false;
            // Finally, show the _couplet_.
            this.node.classList.remove('p-mod-hidden');
            return;
        };
        /**
         * Create a new tab bar for use with a dock panel.
         *
         * @returns A new tab bar for a dock panel.
         */
        Overlay.prototype.createTabBar = function () {
            var bar = new Overlay();
            bar.addClass('p-DockPanel-tabBar');
            return bar;
        };
        /**
         * Create a new overlay for use with a dock panel.
         *
         * @returns A new overlay for a dock panel.
         */
        Overlay.prototype.createOverlay = function () {
            var overlay = new Overlay();
            overlay.addClass('p-DockPanel-overlay');
            return overlay;
        };
        /**
         * Create a new handle node for use with a dock panel.
         *
         * @returns A new handle node for a dock panel.
         */
        Overlay.prototype.createHandle = function () {
            var handle = document.createElement('div');
            handle.className = 'p-DockPanel-handle';
            return handle;
        };
        /**
         * Create a new _couplet_.
         *
         * @returns A new _couplet_.
         */
        Overlay.prototype.createCouplet = function () {
            var couplet = new Overlay();
            couplet.addClass('p-DockPanel-couplet');
            return couplet;
        };
the widgets
     * have gained focus. A widget with a larger number has gained focus
     * more recently than a
     *
     * #### Notes
     * The focus number indicates the relative order in which
     *   given widget, or `-1` if the
     *   widget has not had focus since being added to the tracker, or
     *   is not
     *
     * @param widget - The widget of interest.
     *
     * @returns The focus number for the
     *
     * `get: function () {
        return this._activeWidget;
    },
    enumerable: true,
    configurable: true
    });
    Object.defineProperty(FocusTracker.prototype, "activeWidget", {
        /**
         * The active widget in the tracker.
         *
         * #### Notes
         * The active widget is the widget among the tracked widgets which
         * has the *descendant node* which has most recently been focused.
         * 
         * The current widget will not be updated if the node loses focus.
         * If the current
         * will only be updated when a different tracked widget gains focus.
         * If the current
         * is removed from the tracker, the previous
         * current widget will be restored.
         * This behavior is intended to follow a user's conceptual model of
         * a semantically *current* widget, where the
         *
         * to be interacted with is the "current instance of X", regardless
         * of
         * whether that instance still has focus.
         *
         * @returns The focus number for a particular widget in the
         *
         * @returns The focus number for the
         * given widget, or `-1` if the
         * widget has not had focus since being added to the tracker, or
         * is not
         * contained by the tracker.
         * 
         * @param widget - The widget of interest.
         * @returns The focus number for the
         *
         * * has gained focus. A widget with a larger number has gained focus
         * more recently than a
widget with a smaller number.

* The `currentWidget` will always have the largest focus number.
* All widgets start with a focus number of `-1`, which indicates that the widget has not been focused since being added to the tracker.
* `FocusTracker.prototype.focusNumber` is a function that takes a widget

```javascript
var n = this._numbers.get(widget); return n === undefined ? -1 : n;
```

* `@param widget - The widget of interest.`
* `var n = this._numbers.get(widget);` return `n`.

### Notes

* A widget will be automatically removed from the tracker if it is disposed after being added.
* If the widget is already tracked, this is a no-op.

```javascript
FocusTracker.prototype.add = function (widget) {
    // Do nothing if the widget is already tracked.
    if (this._numbers.has(widget)) {
        return;
    }

    // Test whether the widget has focus.
    var focused = widget.node.contains(document.activeElement);

    // Set up the internal structures.
    this._widgets.push(widget);
    this._numbers.set(widget, n);
    this._nodes.set(widget.node, widget);

    // Connect the event listeners.
    widget.node.addEventListener('focus', this, true);
    widget.node.addEventListener('blur', this, true);

    // Since the 'focus' and 'blur' events don't bubble and Firefox doesn't support the 'focusin' or 'focusout' events, widget.node.addEventListener('focus', this, true);
    widget.node.addEventListener('focus', this)
```

* `this._nodes.set(widget.node, widget);

```javascript
// Set up the initial focus number.
```
widget. 

*function FocusTracker.prototype._evtFocus = function (event) {
    // Find the widget which gained focus, which is known to exist.
    var widget = this._nodes.get(event.currentTarget);
    // Update the focus number if necessary.
    if (widget !== this._currentWidget) {
        this._numbers.set(widget, this._counter++);
    }
    // Set the current and active widgets.
    this._setWidgets(widget, this._nodes.get(event.currentTarget));
} /* */

FocusTracker.prototype._evtBlur = function (event) {
    // Find the widget which lost focus, which is known to exist.
    var widget = this._nodes.get(event.currentTarget);
    // Get the node which was being focused after this blur.
    var focusTarget = event.relatedTarget;
    // If no other node is being focused, clear the active widget.
    if (!focusTarget) {
        this._setWidgets(this._currentWidget, null);
        return;
    }
    // Bail if the focus widget is not changing.
    if (widget.node.contains(focusTarget)) {
        return;
    }
    // If no tracked widget is being focused, clear the active widget.
    if (!algorithm_1.find(this._widgets, function (w) { return w.node.contains(focusTarget); })) {
        this._setWidgets(this._currentWidget, null);
        return;
    }
    // Handle the `disposed` signal for a tracked widget.
    FocusTracker.prototype.onWidgetDisposed = function (sender) {
        this.remove(sender);
    };
    return FocusTracker;
}();
exports.FocusTracker = FocusTracker;

widget.

*function FocusTracker.prototype._EvtFocus = function (event) {
    // Find the widget which gained focus, which is known to exist.
    var widget = this._nodes.get(event.currentTarget);
    // Update the focus number if necessary.
    if (widget !== this._currentWidget) {
        this._numbers.set(widget, this._counter++);
    }
    // Set the current and active widgets.
    this._setWidgets(widget, this._nodes.get(event.currentTarget));
} /* */

FocusTracker.prototype._EvtBlur = function (event) {
    // Find the widget which lost focus, which is known to exist.
    var widget = this._nodes.get(event.currentTarget);
    // Get the node which was being focused after this blur.
    var focusTarget = event.relatedTarget;
    // If no other node is being focused, clear the active widget.
    if (!focusTarget) {
        this._setWidgets(this._currentWidget, null);
        return;
    }
    // Bail if the focus widget is not changing.
    if (widget.node.contains(focusTarget)) {
        return;
    }
    // If no tracked widget is being focused, clear the active widget.
    if (!algorithm_1.find(this._widgets, function (w) { return w.node.contains(focusTarget); })) {
        this._setWidgets(this._currentWidget, null);
        return;
    }
    // Handle the `disposed` signal for a tracked widget.
    FocusTracker.prototype.onWidgetDisposed = function (sender) {
        this.remove(sender);
    };
    return FocusTracker;
}();
exports.FocusTracker = FocusTracker;

widget.
*return this._rowSizers.length; };

/** * Set the number of rows in the layout. */
*\n*\n*\n
* * * \n
* @returns The number of columns in the layout.
*\n
* * * \n
* @returns The row index of interest.
*\n
* * * \n
* @returns The stretch factor for a specific row.
*\n
* * * \n
* @returns The stretch factor for a specific column.
*\n
* * * \n
* @returns The stretch factor for a specific row.
*\n
* * * \n
* @returns The stretch factor for a specific column.
*\n
* * * \n
* @returns The stretch factor for a specific row.
*\n
* * * \n
* @returns The stretch factor for a specific column.
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* * * \n
* @returns The stretch factor for a specific row.
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* * * \n
* @returns The stretch factor for a specific column.
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* * * \n
* @returns The stretch factor for a specific row.
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* @returns The stretch factor for a specific column.
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* * * \n
* @returns The stretch factor for a specific row.
*\n
* * * \n
* @returns The stretch factor for a specific column.
*\n
* * * \n
* @returns The stretch factor for a specific row.
*\n
* * * \n
* @returns The stretch factor for a specific column.
*\n
* * * \n
* @returns The stretch factor for a specific row.
*\n
* * * \n
* @returns The stretch factor for a specific column.
this._update(msg.width, msg.height);

/** * A message handler invoked on an
 * `update-request` message.
 */
GridLayout.prototype.onUpdateRequest = function (msg) {
  if (this.parent.isAttached) {
    this._update(-1, -1);
  } else { /* A message handler
         invoked on a `fit-request` message. */
    GridLayout.prototype.onFitRequest = function (msg) {
      if (this.parent.isAttached) {
        this._fit();
      } else { /* Fit the layout to the total size
         required by the widgets. */
        GridLayout.prototype._fit = function () {
          // Reset the min sizes of the
          sizers.

          for (var i = 0, n = this.rowCount; i < n; ++i) {
            this._rowSizers[i].minSize = 0;
          }
          // Filter for the visible layout items.

          var items = this._items.filter(function (it) { return !it.isHidden; });

          // Get the max row and column index.
          var maxRow = this.rowCount - 1;
          var maxCol = this.columnCount - 1;
          // Sort the items by row span.
          items.sort(Private.rowSpanCmp);
          // Update the min sizes of the row
          sizers.

          for (var i = 0, n = items.length; i < n; ++i) {
            var item = items[i];
            // Get the row bounds for the item.
            var config = GridLayout.getCellConfig(item.widget);

            var c1 = Math.min(config.column, maxCol);
            var c2 = Math.min(config.column + config.columnSpan - 1, maxCol);
            // Distribute the minimum height to the sizers as
            needed.

            Private.distributeMin(this._rowSizers, c1, c2, item.minHeight);
          }
          // Sort the items by column span.
          items.sort(Private.columnSpanCmp);
          // Update the min sizes of the column
          sizers.

          for (var i = 0, n = items.length; i < n; ++i) {
            var item = items[i];
            // Get the column bounds for the item.
            var config = GridLayout.getCellConfig(item.widget);

            var r1 = Math.min(config.row, maxRow);
            var r2 = Math.min(config.row + config.rowSpan - 1, maxRow);
            // Distribute the minimum height to the sizers as
            needed.

            Private.distributeMin(this._columnSizers, r1, r2, item.minWidth);
          }
          // Add the sizer minimums to the computed min size.

          for (var i = 0, n = this.rowCount; i < n; ++i) {
            this._rowSizers[i].minSize += this._rowSizers[i].minSize;
          }
          for (var i = 0, n = this.columnCount; i < n; ++i) {
            this._columnSizers[i].minSize += this._columnSizers[i].minSize;
          }
          // Set up the computed min size.

          var minH = maxRow * this._rowSpacing;
          var minW = maxCol * this._columnSpacing;
          // Add the sizer minimums to the computed min size.

          for (var i = 0, n = this.rowCount; i < n; ++i) {
            minH += this._rowSizers[i].minSize;
          }
          for (var i = 0, n = this.columnCount; i < n; ++i) {
            minW += this._columnSizers[i].minSize;
          }
          // Update the box sizing and add it to the computed min size.

          var box = this._box = domutils_1.ElementExt.boxSizing(this.parent.node);
          minW += box.horizontalSum;
          minH += box.verticalSum;
          // Update the parent's min size constraints.

          var style = this.parent.node.style;
          style.minWidth = minW + `px`;
          style.minHeight = minH + `px`;
          // Set the dirty flag to ensure
          only a single update occurs.

          this._dirty = true;
          // Notify the ancestor that it should fit immediately.
          this._parent && this._parent._fit();

          // If the dirty flag is still set, the parent was not resized.
          // Trigger the required update on the parent widget
          immediately.
          if (this._dirty) {
            domutils_1.MessageLoop.sendMessage(this.parent, widget_1.Widget.Msg.UpdateRequest);
          } else { /* The parent offset dimensions should be ``-1` if unknown. */
            GridLayout.prototype._update = function (offsetWidth, offsetHeight) {
              // Clear the dirty flag to indicate the
              update occurred.
              this._dirty = false;
              // Measure the parent if the offset dimensions are unknown.

              if (offsetWidth < 0) {
                offsetWidth = this.parent.node.offsetHeight;
              } else { /* Ensure the parent box sizing data is
               computed. */
                if (this._box) {
                  this._box = domutils_1.ElementExt.boxSizing(this.parent.node);
                }
              }
              // Compute the layout area adjusted for border and padding.
              var top = this._box.paddingTop;
              var left = this._box.paddingLeft;
              var width = offsetWidth - this._box.horizontalSum;
              var height = offsetHeight - this._box.verticalSum;
              // Get the max row and column index.

              var maxRow =
this.rowCount - 1;
var maxCol = this.columnCount - 1; // Compute the total fixed row and column space
var fixedRowSpan = maxRow * this._rowSpacing;
var fixedColSpace = maxCol * this._columnSpacing;
// Distribute the available space to the box sizers.
boxengine_1.BoxEngine.calc(this._rowSizers, Math.max(0, height - fixedRowSpan));
boxengine_1.BoxEngine.calc(this._columnSizers, Math.max(0, width - fixedColSpace));
// Update the row start positions.
for (var i = 0, pos = top, n = this.rowCount; i < n; ++i) {
    this._rowStarts[i] = pos;
    pos += this._rowSizers[i].size + this._rowSpacing;
}
// Update the column start positions.
for (var i = 0, pos = left, n = this.columnCount; i < n; ++i) {
    this._columnStarts[i] = pos;
    pos += this._columnSizers[i].size + this._columnSpacing;
}
// Update the geometry of the layout items.
for (var i = 0, n = this._items.length; i < n; ++i) {
    var item = this._items[i];
    // Ignore hidden items.
    if (item.isHidden) {
        continue;
    }
    // Fetch the item.
    var x = this._columnStarts[c1];
    var y = this._rowStarts[r1];
    var w = this._columnStarts[c2] + this._columnSizers[c2].size - x;
    var h = this._rowStarts[r2] + this._rowSizers[r2].size - y;
    // Update the geometry of the layout item.
    item.update(x, y, w, h);
}
return GridLayout;
exports.GridLayout = GridLayout;
/**
 * The namespace for the `GridLayout` class statics.
 */
(function (GridLayout) {
    /**
     * Get the cell config for the given widget.
     *
     * @param widget - The widget of interest.
     *
     * @returns The cell config for the widget.
     */
    function getCellConfig(widget) {
        return Private.cellConfigProperty.get(widget);
    }
    GridLayout.getCellConfig = getCellConfig;
    /**
     * Set the cell config for the given widget.
     *
     * @param widget - The widget of interest.
     *
     * @param value - The cell config value.
     */
    function setCellConfig(widget, value) {
        Private.cellConfigProperty.set(widget, Private.normalizeConfig(value));
    }
    GridLayout.setCellConfig = setCellConfig;
})(GridLayout = exports.GridLayout || (exports.GridLayout = {}));
exports.GridLayout = GridLayout;
/**
 * The namespace for the module implementation details.
 */
var Private;
(function (Private) {
    /**
     * The property descriptor for the widget cell config.
     */
    Private.cellConfigProperty = new properties_1.AttachedProperty({
        name: 'cellConfig',
        create: function () { return ({ row: 0, column: 0, rowSpan: 1, columnSpan: 1 }); },
        changed: onChildCellConfigChanged
    });
    /**
     * Normalize a partial cell config object.
     *
     * @param config - The config to normalize.
     *
     * @returns A normalized config object.
     */
    function normalizeConfig(config) {
        var row = Math.max(0, Math.floor(config.row || 0));
        var column = Math.max(0, Math.floor(config.column || 0));
        var rowSpan = Math.max(1, Math.floor(config.rowSpan || 0));
        var columnSpan = Math.max(1, Math.floor(config.columnSpan || 0));
        return { row: row, column: column, rowSpan: rowSpan, columnSpan: columnSpan };
    }
    Private.normalizeConfig = normalizeConfig;
    /**
     * Normalize a partial cell config object.
     *
     * @param config - The config to normalize.
     *
     * @returns A normalized config object.
     */
    function normalizeConfig(config) {
        var row = Math.max(0, Math.floor(config.row || 0));
        var column = Math.max(0, Math.floor(config.column || 0));
        var rowSpan = Math.max(1, Math.floor(config.rowSpan || 0));
        var columnSpan = Math.max(1, Math.floor(config.columnSpan || 0));
        return { row: row, column: column, rowSpan: rowSpan, columnSpan: columnSpan };
    }
    Private.normalizeConfig = normalizeConfig;
    /**
     * Clamp a value to an integer >= 0.
     */
    function clampValue(value) {
        return Math.max(0, Math.floor(value));
    }
    Private.clampValue = clampValue;
    /**
     * A sort comparison function for row spans.
     */
    function rowSpanCmp(a, b) {
        var a = Private.cellConfigProperty.get(a.widget);
        var b = Private.cellConfigProperty.get(b.widget);
        return a.rowSpan - b.rowSpan;
    }
    Private.rowSpanCmp = rowSpanCmp;
    /**
     * A sort comparison function for column spans.
     */
    function columnSpanCmp(a, b) {
        var a = Private.cellConfigProperty.get(a.widget);
        var b = Private.cellConfigProperty.get(b.widget);
        return a.columnSpan - b.columnSpan;
    }
    Private.columnSpanCmp = columnSpanCmp;
    /**
     * Reallocate the box sizers for the given grid dimensions.
     */
    function reallocSizers(sizers, count) {
        // Coerce the count to the valid range.
        count = Math.max(1, Math.floor(count));
        // Add the missing sizers.
        while (sizers.length < count) {
            sizers.push(new boxengine_1.BoxSizer());
        }
        // Remove the extra sizers.
        if (sizers.length > count) {
            sizers.length = count;
        }
    }
})(Private || (Private = {}));

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this._activeIndex; // Set the index of the currently active menu.

#### Notes
- If the menu cannot be activated, the index will be set to -1.

```javascript
if (value < 0 || value >= this._menus.length) {
    value = -1;
    // Bail early if there is no active item.
    if (this._activeIndex === value) {
        return;
    }
    this._activeIndex = value;
    // Update the active index.
}
```

```javascript
update();
```

```javascript
*enumerable: true, *configurable: true;)
```

```javascript
Object.defineProperty(MenuBar.prototype, "menus", {
    /**
     * A read-only array of the menus in the menu bar.
     */
    get: function () {
        return this._menus;
    },
    enumerable: true, configurable: true;
}
```

```javascript
*open: function (value) {
    // Adjust the value for an out of range index.
    if (value < 0 || value >= this._menus.length) {
        value = -1;
    }
    // Bail early if there is no active item.
    if (this._activeIndex === value) {
        return;
    }
    this._activeIndex = value;
    // Schedule an update of the items.
    this.update();
}
```

```javascript
enumerable: true,
configurable: true
```
/**
 * Remove all menus from the menu bar.
 */
MenuBar.prototype.clearMenus = function () {
    // Close the child menu before making changes.
    this._closeChildMenu();
    // Disconnect from the menu signals and remove the styling class.
    for (var _i = 0, _a = this._menus; _i < _a.length; _i++) {
        var menu = _a[_i];
        menu.aboutToClose.disconnect(this._onMenuAboutToClose, this);
        menu.menuRequested.disconnect(this._onMenuMenuRequested, this);
        menu.title.changed.disconnect(this._onTitleChanged, this);
        menu.removeClass('p-MenuBar-menu');
    }
    // Clear the menus array.
    this._menus.length = 0;
    // Schedule an update of the items.
    this.update();
    // Delete menu.
    this._activeIndex = -1;
    this._closeChildMenu();
}
/**
 * Handle the DOM events for the menu bar.
 * @param event - The DOM event sent to the menu bar.
 */
MenuBar.prototype.handleEvent = function (event) {
    switch (event.type) {
        case 'keydown':
            this._evtKeyDown(event);
            break;
        case 'mousedown':
            this._evtMouseDown(event);
            break;
        case 'mousemove':
            this._evtMouseMove(event);
            break;
        case 'mouseleave':
            this._evtMouseLeave(event);
            break;
        case 'contextmenu':
            event.preventDefault();
            event.stopPropagation();
            break;
    }
}
/**
 * Handle the `'keydown'` event for the menu bar.
 */
MenuBar.prototype._evtKeyDown = function (event) {
    // A menu bar handles all keydown events.
    event.preventDefault();
    event.stopPropagation();
    // Fetch the key code for the event.
    var kc = event.keyCode;
    // Enter, Up Arrow, Down Arrow
    if (kc === 13 || kc === 38 || kc === 40) {
        this.openActiveMenu();
        return;
    }
    // Escape
    if (kc === 27) {
        this._closeChildMenu();
        this.activeIndex = -1;
        this.node.blur();
        return;
    }
    // Left Arrow
    if (kc === 37) {
        var i = this._activeIndex;
        var n = this._menus.length;
        if (i === 0) {
            this._activeIndex = n - 1;
            this.node.focus();
        } else {
            this._activeIndex = i - 1;
        }
    }
    // Right Arrow
    if (kc === 39) {
        var i = this._activeIndex;
        var n = this._menus.length;
        if (i === n - 1) {
            this._activeIndex = 0;
        } else {
            this._activeIndex = i + 1;
        }
    }
    // Get the pressed key character.
    var key = keyboard_1.getKeyboardLayout().keyForKeyDownEvent(event);
    // Bail if the key is not valid.
    if (key !== ' ') {
        return;
    }
    // Search for the next best matching mnemonic item.
    var start = this._activeIndex + 1;
    var result = Private.findMnemonic(this._menus, key, start);
    if (result) {
        var index = result[0];
        var item = result[1];
        this._selectItem(index, item);
    } else {
        this._selectItem(result[0], event);  // Handle the requested mnemonic based on the search results.
    }
    // Otherwise, the next mnemonic is activated if available.
}
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Menu.

*/

MenuBar.prototype._onMenuAboutToClose = function (sender) {
    // Bail if the sender is

    reset the active index.

    this.activeIndex = -1;

    /**
     * Handle the `aboutToClose` signal of a

     menu = this._childMenu;

     this._childMenu = null;

     // Close the menu.

     menu.close();

     // Clear the internal menu reference.

     var

     document.removeEventListener('mousedown', this, true);

     // Remove the active
class from the menu bar.

    this.removeClass('p-mod-active');

    // Remove the document listeners.

    var

    // If the mouse press was not on the menu bar. This can occur
    // when the document listener is installed for an active menu bar.

    if (!domutils_1.ElementExt.hitTest(this.node, event.clientX,

    event.clientY)) {
        // Otherwise, toggle the open state of the menu.

        var

        // Check if the mouse is over one of the menu items.

        var index = algorithm_1.ArrayExt.findIndex(this.contentNode.children, function (node) {
            return domutils_1.ElementExt.hitTest(node, event.clientX, event.clientY);
        });

        // Bail early if the active index will not change.

        if (index !== this.activeIndex) {
            return;
        }

        // Bail early if a child menu is open and the mouse is not over
        // an item. This allows the child menu to be kept open when

        the

        // mouse is over the empty part of the menu bar.

        if (index === -1) {
            return;
        }

        // Update the active index to the hovered item.

        this.activeIndex = index;

        // Open the new menu if a menu is already open.

        if (this._childMenu) {
            this._openChildMenu();
        }

        // If there is no active menu, close the current menu.

        var oldMenu = this._childMenu;

        if (oldMenu === newMenu) {
            return;
        }

        // Bail if there is no effective

        if (!newMenu) {
            this._closeChildMenu();
            return;
        }

        // Otherwise, toggle the open state of the child menu.

        if (newMenu) {
            this._openChildMenu();
        }

        // Bail if there is no effective

        var oldMenu = this._childMenu;

        if (oldMenu !== newMenu) {

            // If there is no active menu, close the current menu.

            var newMenu = this.activeMenu;

            if (oldMenu !== null) {

                // If the press was not the left mouse button, do nothing further.

                if (event.button !== 0) {
                    return;
                }

                // Otherwise, toggle the open state of the menu.

                this.activeIndex = index;

                // Bail early if the active index will not change.

                if (index !== this.activeIndex) {
                    return;
                }

                // Bail early if a child menu is open and the mouse is not over
                // an item. This allows the child menu to be kept open when

                the

                // mouse is over the empty part of the menu bar.

                if (index === -1) {
                    return;
                }

                // Update the active index to the hovered item.

                this.activeIndex = index;

                // Open the new menu if a menu is already open.

                if (this._childMenu) {
                    this._openChildMenu();
                }

                // If there is no active menu, close the current menu.

                var oldMenu = this._childMenu;

                if (oldMenu === newMenu) {
                    return;
                }

                // Bail if there is no effective

                if (!newMenu) {
                    this._closeChildMenu();
                    return;
                }

                // Otherwise, toggle the open state of the child menu.

                if (newMenu) {
                    this._openChildMenu();
                }

                // Bail if there is no effective
not the child menu.\n
if (sender !== this._childMenu) {\n    return;\n}\n\n// Bail if the sender is not the child menu.\nif (sender !== this._childMenu) {\n  return;\n}\n\n// Reset the active index.\nthis.activeIndex = -1;\n\n/*\n  * Handle the menuRequested signal of a child menu.\n*/\nMenuBar.prototype._onMenuRequested = function (sender, args) {\n  return MenuBar.prototype._onMenuRequested.call(this, args);\n}\n\n/**\n * Render the item element for a menu bar menu.\n * @param data - The data to use for rendering the item.\n * @returns A virtual element representing the item.\n*/\nRenderer.prototype.renderItem = function (data) {
  var className = this.createItemClass(data);
  var dataset = this.createItemDataset(data);

  return virtualdom_1.h.li({ className: className, dataset: dataset }, this.renderIcon(data), this.renderLabel(data));
}\n\n/**\n * Render the label element for a menu item.\n * @param data - The data to use for rendering the label.\n * @returns A virtual element representing the label.\n*/\nRenderer.prototype.renderLabel = function (data) {
  var content = this.formatLabel(data);
  \n  return virtualdom_1.h.div({ className: 'p-MenuBar-itemLabel' }, content);
}\n\n/**\n * Render the icon element for a menu bar item.\n * @param data - The data to use for rendering the icon.\n * @returns A virtual element representing the item icon.\n*/\nRenderer.prototype.renderIcon = function (data) {
  var className = this.createItemClass(data);
  var dataset = this.createItemDataset(data);

  return virtualdom_1.h.li({ className: className, dataset: dataset }, this.renderIcon(data), this.renderLabel(data));
}\n\n/*\n  * Create the render content for the label node.\n*/\nRenderer.prototype.renderLabel = function (data) {
  var name = 'p-MenuBar-itemLabel';\n  \n  var extra = data.title + data.className;\n
  // Get the label text and mnemonic.\n  var label = data.title + data.className;

  // If the index is out of range, do not modify the label.\n  if (mnemonic < 0 || mnemonic >= label.length) {
    return label;\n  }\n
  var suffix = label.slice(mnemonic + 1);\n  \n  var prefix = label.slice(0, mnemonic);\n
  if (prefix.length > 0) {
    label = label.slice(0, mnemonic);\n    mnemonic = 0;
  }\n
  var char = label[mnemonic];\n
  if (char === null) {\n    return undefined;\n  }\n
  var span = virtualdom_1.h.span({ className: 'p-MenuBar-itemMnemonic' }, char, { className: 'p-MenuBar-itemIcon' }, label, { className: 'p-MenuBar-itemLabel' }, label);

  return span;
}\n\n/**\n * Create the class name for the menu bar item.\n * @param data - The data to use for rendering the item.\n * @returns The full class name for the menu item.\n*/\nRenderer.prototype.createItemClass = function (data) {
  var name = 'p-MenuBar-item';\n
  if (data.title.className) {
    name += ' p-mod-active';
  }

  return name;
}\n\n/**\n * Create the class name for the menu bar item icon.\n * @param data - The data to use for rendering the item icon.\n * @returns The full class name for the menu item icon.\n*/\nRenderer.prototype.createItemIconClass = function (data) {
  var name = 'p-MenuBar-itemIcon';\n
  if (data.title.iconClass) {
    name += ' p-mod-active';
  }

  return name;
}\n\n/**\n * Create the full class name for the menu item.\n * @param data - The data to use for rendering the menu item.\n * @returns The full class name for the menu item.\n*/\nRenderer.prototype.createItemDataset = function (data) {
  var dataset = data.title.dataset;

  if (dataset) {
    return dataset;
  }
}\n\n**\n  * Create the render content for the label node.\n*/\nRenderer.prototype.renderLabel = function (data) {
  var name = 'p-MenuBar-itemLabel';\n  \n  var extra = data.title + data.className;\n
  // Get the label text and mnemonic.\n  var label = data.title + data.className;

  // If the index is out of range, do not modify the label.\n  if (mnemonic < 0 || mnemonic >= label.length) {
    return label;\n  }\n
  var suffix = label.slice(mnemonic + 1);\n  \n  var prefix = label.slice(0, mnemonic);\n
  if (prefix.length > 0) {
    label = label.slice(0, mnemonic);\n    mnemonic = 0;
  }\n
  var char = label[mnemonic];\n
  if (char === null) {\n    return undefined;\n  }\n
  var span = virtualdom_1.h.span({ className: 'p-MenuBar-itemMnemonic' }, char, { className: 'p-MenuBar-itemIcon' }, label, { className: 'p-MenuBar-itemLabel' }, label);

  return span;
}\n\n/*\n  * Create the render content for the label node.\n*/\nRenderer.prototype.renderLabel = function (data) {
  var name = 'p-MenuBar-itemLabel';\n  \n  var extra = data.title + data.className;\n
  // Get the label text and mnemonic.\n  var label = data.title + data.className;

  // If the index is out of range, do not modify the label.\n  if (mnemonic < 0 || mnemonic >= label.length) {
    return label;\n  }\n
  var suffix = label.slice(mnemonic + 1);\n  \n  var prefix = label.slice(0, mnemonic);\n
  if (prefix.length > 0) {
    label = label.slice(0, mnemonic);\n    mnemonic = 0;
  }\n
  var char = label[mnemonic];\n
  if (char === null) {\n    return undefined;\n  }\n
  var span = virtualdom_1.h.span({ className: 'p-MenuBar-itemMnemonic' }, char, { className: 'p-MenuBar-itemIcon' }, label, { className: 'p-MenuBar-itemLabel' }, label);

  return span;\n}
return;
                }
                // Emit the step requested signal.

                if (!domutils_1.ElementExt.hitTest(_this.incrementNode, mouseX, mouseY)) {
                    Handle an increment button repeat.
                    if (part === 'increment') {
                        // Bail if the mouse is not over
                        _this._stepRequested.emit('decrement');
                        // Finished.
                        return;
                    }
                    // Emit the step requested signal.
                }
                // Emit the step requested signal.

                if (!domutils_1.ElementExt.hitTest(_this.decrementNode, mouseX, mouseY)) {
                    Handle a decrement button repeat.
                    if (part === 'decrement') {
                        // Bail if the mouse is not over the
                        _this._repeatTimer = setTimeout(_this._onRepeat, 20);
                        // Get the current mouse position.
                        var mouseY = _this._pressData.mouseY;
                        // Handle a repeat.
                        if (part === 'thumb') {
                            return;
                        }
                        // Schedule the timer for another repeat.
                        var part = _this._pressData.part;
                        // Bail if the thumb was pressed.
                        if (!_this._pressData) {
                            return;
                        }
                        // Look up the part that was
                        var auto = _k; // Bail if the mouse has been
                        if (index === -1) {
                            if (index >= 0 && index < title.label.length) {
                                if (title.label[index].toUpperCase() === upperKey) {
                                    // Return the content parts.
                                    return [prefix, span, suffix];
                                } else {
                                    return;
                                }
                            } else {
                                return;
                            }
                        }
                        // Look up the mnemonic index for the label.
                        var mn = title.mnemonic;
                        // Handle a valid mnemonic index.
                        if (mn > 0 && mn >= title.label.length) {
                            if (auto == -1 && title.label[0].toUpperCase() == upperKey) {
                                return;
                            } else {
                                multiple = true;
                            }
                        } else {
                            if (auto == -1) {
                                if (true) {
                                    var continue;
                                } else {
                                    continue;
                                }
                            } else {
                                continue;
                            }
                        }
                        // Finally, handle the auto index if
                        if (possible) {
                            // Normalize the key to
                            if (index == -1) {
                                if (true) {
                                    var continue;
                                } else {
                                    continue;
                                }
                            } else {
                                multiple = true;
                            }
                        } else {
                            // Bail if the mouse is not over the
                            if (part == 'thumb') {
                                return;
                            } else {
                                return;
                            }
                        }
                    }
                    continue;
                }
                if (index === -1) {
                    index = k;
                } else {
                    multiple = true;
                }
                if (true) {
                    var continue;
                } else {
                    continue;
                }
            } else {
                continue;
            }
            // Finally, handle the auto index if
            if (possible) {
                // Normalize the key to
                if (index == -1) {
                    if (true) {
                        var continue;
                    } else {
                        continue;
                    }
                } else {
                    multiple = true;
                }
            } else {
                // Bail if the mouse is not over the
                if (part == 'thumb') {
                    return;
                } else {
                    return;
                }
            }
        } else {
            continue;
        }
        // Handle a valid mnemonic index.
        if (mn > 0 && mn >= title.label.length) {
            if (auto == -1 && title.label[0].toUpperCase() == upperKey) {
                return;
            } else {
                multiple = true;
            }
        } else {
            if (auto == -1) {
                if (true) {
                    var continue;
                } else {
                    continue;
                }
            } else {
                continue;
            }
        }
        // Finally, handle the auto index if
        if (possible) {
            // Normalize the key to
            if (index == -1) {
                if (true) {
                    var continue;
                } else {
                    continue;
                }
            } else {
                multiple = true;
            }
        } else {
            // Bail if the mouse is not over the
            if (part == 'thumb') {
                return;
            } else {
                return;
            }
        }
    }
    // Return the search results.
    return { index: index, multiple: multiple, auto: auto: false };
Get the current value of the scroll bar.

* `get()` - Returns the current value of the scroll bar.

```javascript
return this._value;
```

Set the current value of the scroll bar.

* `set(value)` - Sets the current value of the scroll bar.

```javascript
this._value = value;
```

The value will be clamped to the allowable range.

* `set(value, this_maximum)` - Sets the current value of the scroll bar, clamping it to the allowable range.

```javascript
this._value = Math.max(0, Math.min(value, this._maximum));
```

The payload is the current value of the scroll bar.

* `emit()` - Emits the current value of the scroll bar.

```javascript
_this._pageRequested.emit();
```

The user clicks the step button.

* `emit()` - Emits the event when the user clicks a step button.

```javascript
_this._stepRequested.emit();
```

The user moves the scroll thumb.

* `emit()` - Emits the event when the user moves the scroll thumb.

```javascript
_this._thumbMoved.emit();
```

The payload is whether a decrease or increase is requested.

* `emit()` - Emits the event whether a decrease or increase is requested.

```javascript
_this._stepRequested.emit(dir);
```

The user clicks the scroll track.

* `emit()` - Emits the event when the user clicks the scroll track.

```javascript
_this._trackRequested.emit(part, dir);
```

The payload is the current orientation of the scroll bar.

* `emit()` - Emits the payload for the current orientation.

```javascript
this._orientationRequested.emit(orientation);
```

The page size is the amount of visible content in the scrollable area.

* `get()` - Returns the page size.

```javascript
return this._page;
```

The page size is the amount of visible content in the scrollable area.

* `set(page)` - Sets the page size.

```javascript
this._page = Math.max(0, options.page);
```

The maximum value is the max value.

* `set(maximum)` - Sets the maximum value.

```javascript
this._maximum = Math.max(0, options.maximum);
```

The page requested is true.

* `set(requested)` - Sets the page requested.

```javascript
this._pageRequested = signaling.Signal.create(this); // A signal emitted when the page is requested.
```

The step requested is true.

* `set(requested)` - Sets the step requested.

```javascript
this._stepRequested = signaling.Signal.create(this); // A signal emitted when the step is requested.
```

The thumb moved is true.

* `set(moved)` - Sets the thumb moved.

```javascript
this._thumbMoved = signaling.Signal.create(this); // A signal emitted when the thumb is moved.
```

The press data is null.

* `set(data)` - Sets the press data.

```javascript
this._pressData = data; // A signal emitted when a press event is cancelled.
```

The orientation is vertical.

* `set(orientation)` - Sets the orientation.

```javascript
this._orientation = orientation; // A signal emitted when the orientation is changed.
```

The page rect is the page rect.

* `set(rect)` - Sets the page rect.

```javascript
this._pageRect = rect; // The page rect is used to calculate the page size.
```

The repeat timer is -1.

* `set(timer)` - Sets the repeat timer.

```javascript
this._repeatTimer = -1; // A timer is used to repeat the scroll.
```

The track rect is the track rect.

* `set(rect)` - Sets the track rect.

```javascript
this._trackRect = rect; // The track rect is used to calculate the track size.
```

The next button is false.

* `set(next)` - Sets the next button.

```javascript
this._next = next; // A button is used to move the scroll bar.
```

The previous button is false.

* `set(previous)` - Sets the previous button.

```javascript
this._previous = previous; // A button is used to move the scroll bar.
```

The repeat button is false.

* `set(repeat)` - Sets the repeat button.

```javascript
this._repeat = repeat; // A button is used to repeat the scroll.
```

The scroll bar is false.

* `set(enabled)` - Sets the enabled state.

```javascript
this._enabled = enabled; // A flag is used to enable the scroll bar.
```

The orientation is vertical.

* `set(orientation)` - Sets the orientation.

```javascript
this._orientation = orientation; // A signal emitted when the orientation is changed.
```

The repeat timer is -1.

* `set(timer)` - Sets the repeat timer.

```javascript
this._repeatTimer = -1; // A timer is used to repeat the scroll.
```

The step button is false.

* `set(step)` - Sets the step button.

```javascript
this._step = step; // A button is used to move the scroll bar.
```

The next button is false.

* `set(next)` - Sets the next button.

```javascript
this._next = next; // A button is used to move the scroll bar.
```

The previous button is false.

* `set(previous)` - Sets the previous button.

```javascript
this._previous = previous; // A button is used to move the scroll bar.
```

The repeat button is false.

* `set(repeat)` - Sets the repeat button.

```javascript
this._repeat = repeat; // A button is used to repeat the scroll.
```

The scroll bar is false.

* `set(enabled)` - Sets the enabled state.

```javascript
this._enabled = enabled; // A flag is used to enable the scroll bar.
```

The orientation is vertical.

* `set(orientation)` - Sets the orientation.

```javascript
this._orientation = orientation; // A signal emitted when the orientation is changed.
```

The repeat timer is -1.

* `set(timer)` - Sets the repeat timer.

```javascript
this._repeatTimer = -1; // A timer is used to repeat the scroll.
```

The step button is false.

* `set(step)` - Sets the step button.

```javascript
this._step = step; // A button is used to move the scroll bar.
```

The next button is false.

* `set(next)` - Sets the next button.

```javascript
this._next = next; // A button is used to move the scroll bar.
```

The previous button is false.

* `set(previous)` - Sets the previous button.

```javascript
this._previous = previous; // A button is used to move the scroll bar.
```

The repeat button is false.

* `set(repeat)` - Sets the repeat button.

```javascript
this._repeat = repeat; // A button is used to repeat the scroll.
```

The scroll bar is false.

* `set(enabled)` - Sets the enabled state.

```javascript
this._enabled = enabled; // A flag is used to enable the scroll bar.
```
function (value) {
  // Clamp the page size to the allowable range.
  var this_page = Math.max(0, Math.min(value, 100));
  // Do nothing if the value does not change.
  if (this_page !== value) {
    return;
  }
  // Schedule an update the scroll bar.
  this.update();
  var value = Math.max(0, Math.min(value, 100));
  // Do nothing if the value does not change.
  if (this_value !== value) {
    return;
  }
  // Update the internal values.
  this_value = Math.max(0, Math.min(value, 100));
  // Schedule an update the scroll bar.
  this.update();
  var page = Math.max(0, Math.min(page, 100));
  // Clamp the current value to the new range.
  var new_page = Math.min(page, 100);
  // Do nothing if the value does not change.
  if (new_page !== page) {
    return;
  }
  // Update the internal values.
  this_page = Math.min(page, 100);
  // Schedule an update the scroll bar.
  this.update();
}

```javascript
Object.defineProperty(ScrollBar.prototype, "maximum", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this._maximum;
  },
  set: function (value) {
    // Clamp the value to the allowable range.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
Object.defineProperty(ScrollBar.prototype, "minimum", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this._minimum;
  },
  set: function (value) {
    // Clamp the value to the allowable range.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._minimum !== value) {
      return;
    }
    // Update the internal page size.
    this._minimum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
Object.defineProperty(ScrollBar.prototype, "value", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this._value;
  },
  set: function (value) {
    // Clamp the value to the allowable range.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._value !== value) {
      return;
    }
    // Update the internal page size.
    this._value = value;
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
Object.defineProperty(ScrollBar.prototype, "page", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this._page;
  },
  set: function (value) {
    // Clamp the page size to the allowable range.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._page !== value) {
      return;
    }
    // Update the internal page size.
    this._page = value;
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
Object.defineProperty(ScrollBar.prototype, "thumbNode", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this.node.getElementsByClassName('p-ScrollBar-thumb')[0];
  },
  set: function (value) {
    // Set the maximum value of the scroll bar.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
Object.defineProperty(ScrollBar.prototype, "trackNode", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this.node.getElementsByClassName('p-ScrollBar-track')[0];
  },
  set: function (value) {
    // Set the maximum value of the scroll bar.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
Object.defineProperty(ScrollBar.prototype, "incrementNode", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this.node.getElementsByClassName('p-ScrollBar-button')[0];
  },
  set: function (value) {
    // Clamp the value to the allowable range.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
Object.defineProperty(ScrollBar.prototype, "decrementNode", {
  enumerable: true,
  configurable: true,
  get: function () {
    return this.node.getElementsByClassName('p-ScrollBar-button')[1];
  },
  set: function (value) {
    // Set the maximum value of the scroll bar.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
object.defineProperty(ScrollBar.prototype, "afterAttach", {
  enumerable: true,
  configurable: true,
  get: function () {
    return;
  },
  set: function (value) {
    // Set the maximum value of the scroll bar.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
object.defineProperty(ScrollBar.prototype, "beforeDetach", {
  enumerable: true,
  configurable: true,
  get: function () {
    return;
  },
  set: function (value) {
    // Set the maximum value of the scroll bar.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
object.defineProperty(ScrollBar.prototype, "update", {
  enumerable: true,
  configurable: true,
  get: function () {
    return;
  },
  set: function (value) {
    // Set the maximum value of the scroll bar.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```

```javascript
object.defineProperty(ScrollBar.prototype, "handleEvent", {
  enumerable: true,
  configurable: true,
  get: function () {
    return;
  },
  set: function (value) {
    // Set the maximum value of the scroll bar.
    var value = Math.max(0, Math.min(value, 100));
    // Do nothing if the value does not change.
    if (this._maximum !== value) {
      return;
    }
    // Update the internal page size.
    this._maximum = value;
    // Clamp the current value to the new range.
    this_value = Math.max(0, Math.min(value, 100));
    // Schedule an update the scroll bar.
    this.update();
  }
});
```
Handle the 'keydown' event for the scroll bar.

*Function*

```javascript
/**
 * Handle the 'keydown' event for the scroll bar.
 * @param {Event} event - The event object.
 * @returns {void}
 */
ScrollBar.prototype._evtKeyDown = function (event) {
    // Determine the direction of the page request.
    var dir = void 0;
    if (this._orientation !== 'horizontal') {
        thumbStyle.top = page + '%';
        thumbStyle.height = page + '%';
        thumbStyle.width = page + '%';
        thumbStyle.transform = 'translate(0, ' + -value + ' %)';
    } else {
        thumbStyle.left = page + '%';
        thumbStyle.width = page + '%';
        thumbStyle.top = page + '%';
        thumbStyle.transform = 'translate(' + -value + ', 0%)';
    }
    // Add the active class to the thumb node.
    thumbNode.classList.add('p-mod-active');
    // Update the press data delta for the current orientation.
    if (this._orientation === 'horizontal') {
        thumbStyle.top = event.clientY - thumbRect.top;
        thumbStyle.left = event.clientX - thumbRect.left;
        dir = event.clientX < thumbRect.left ? 'decrement' : 'increment';
    } else {
        thumbStyle.height = event.clientY - thumbRect.top;
        thumbStyle.width = page + '%';
        dir = event.clientY < thumbRect.top ? 'decrement' : 'increment';
    }
    // Start the repeat timer.
    this._repeatTimer = setTimeout(this._onRepeat, 350);
    // Emit the page requested signal.
    this.pageRequested.emit(dir);
    // Handle a track press.
    if (part === 'track') {
        // Fetch the client rect for the thumb.
        var thumbRect = this.thumbNode.getBoundingClientRect();
        // Update the press data delta for the current orientation.
        if (this._orientation === 'horizontal') {
            thumbStyle.top = event.clientY - thumbRect.top;
            thumbStyle.left = event.clientX - thumbRect.left;
            dir = event.clientX < thumbRect.left ? 'decrement' : 'increment';
        } else {
            thumbStyle.transform = "translate(0%, " + -value + "%)";
        }
    }
};
```

Handle the 'mousedown' event for the scroll bar.

*Function*

```javascript
/**
 * Handle the 'mousedown' event for the scroll bar.
 * @param {Event} event - The event object.
 * @returns {void}
 */
ScrollBar.prototype._evtMouseDown = function (event) {
    // Do nothing if it's not a left mouse press.
    if (event.button !== 0) {
        return;
    }
    // Find the pressed scroll bar part.
    var part = Private.findPart(this, event.target);
    // Do nothing if the mouse is already captured.
    if (this._pressData) {
        return;
    }
    // Find the pressed scroll bar.
    ScrollBar.prototype._pressData = {
        part: part,
        override: override,
        delta: -1,
        value: -1,
        mouseX: event.clientX,
        mouseY:
```

Handle the 'mousemove' event for the scroll bar.

*Function*

```javascript
/**
 * Handle the 'mousemove' event for the scroll bar.
 * @param {Event} event - The event object.
 * @returns {void}
 */
ScrollBar.prototype._evtMouseMove = function (event) {
    // Finish the drag.
    this._moveThumb(value);
    //Called when the mouse is released.
    this._releaseMouse();
    // Overide the mouse cursor.
    override = dragdrop_1.Drag.overrideCursor('default');
    // Set up the press data.
    var this_pressData = {
        part: part,
        override: override,
        delta: -1,
        value: -1,
        mouseX: event.clientX,
        mouseY: event.clientY
    };
    // Add the extra event listeners.
    document.addEventListener('mousedown', this, true);
    document.addEventListener('mouseup', this, true);
    document.addEventListener('keydown', this, true);
    document.addEventListener('contextmenu', this, true);
    // Handle a thumb press.
    if (part === 'thumb') {
        // Fetch the thumb node.
        var thumbNode = this.thumbNode;
        // Fetch the client rect for the thumb.
        var thumbRect = thumbNode.getBoundingClientRect();
        // Update the press data delta for the current orientation.
        if (this._orientation === 'horizontal') {
            thumbStyle.top = event.clientY - thumbRect.top;
            thumbStyle.height = event.clientX - thumbRect.left;
            dir = event.clientX < thumbRect.left ? 'decrement' : 'increment';
        } else {
            thumbStyle.transform = "translate(0%, " + -value + "%)";
        }
        // Start the repeat timer.
        this._repeatTimer = setTimeout(this._onRepeat, 350);
        // Emit the page requested signal.
        this.pageRequested.emit(dir);
        // Handle a decrement button press.
        if (part === 'decrement') {
            // Add the active class to the decrement node.
            this.decrementNode.classList.add('p-mod-active');
            // Start the repeat timer.
            this._repeatTimer = setTimeout(this._onRepeat, 350);
            // Emit the step requested signal.
            this._stepRequested.emit('decrement');
        }
    }
    // Handle an increment button press.
    if (part === 'increment') {
        // Add the active class to the increment node.
        this.incrementNode.classList.add('p-mod-active');
        // Start the repeat timer.
        this._repeatTimer = setTimeout(this._onRepeat, 350);
        // Emit the step requested signal.
        this._stepRequested.emit('increment');
    }
};
```

Handle the 'mouseup' event for the scroll bar.

*Function*

```javascript
/**
 * Handle the 'mouseup' event for the scroll bar.
 * @param {Event} event - The event object.
 * @returns {void}
 */
ScrollBar.prototype._evtMouseUp = function (event) {
    // Finish the drag.
    this._moveThumb(value);
    // Called when the mouse is released.
    this._releaseMouse();
    // Overide the mouse cursor.
    var override = dragdrop_1.Drag.overrideCursor('default');
    // Set up the press data.
    var this_pressData = {
        part: part,
        override: override,
        delta: -1,
        value: -1,
        mouseX: event.clientX,
        mouseY: event.clientY
    };
    // Add the extra event listeners.
    document.addEventListener('mousedown', this, true);
    document.addEventListener('mouseup', this, true);
    document.addEventListener('keydown', this, true);
    document.addEventListener('contextmenu', this, true);
    // Handle a thumb press.
    if (part === 'thumb') {
        // Fetch the thumb node.
        var thumbNode = this.thumbNode;
        // Fetch the client rect for the thumb.
        var thumbRect = thumbNode.getBoundingClientRect();
        // Update the press data delta for the current orientation.
        if (this._orientation === 'horizontal') {
            thumbStyle.top = event.clientY - thumbRect.top;
            thumbStyle.height = event.clientX - thumbRect.left;
            dir = event.clientX < thumbRect.left ? 'decrement' : 'increment';
        } else {
            thumbStyle.transform = "translate(0%, " + -value + "%)";
        }
        // Start the repeat timer.
        this._repeatTimer = setTimeout(this._onRepeat, 350);
        // Emit the page requested signal.
        this.pageRequested.emit(dir);
        // Handle a decrement button press.
        if (part === 'decrement') {
            // Add the active class to the decrement node.
            this.decrementNode.classList.add('p-mod-active');
            // Start the repeat timer.
            this._repeatTimer = setTimeout(this._onRepeat, 350);
            // Emit the step requested signal.
            this._stepRequested.emit('decrement');
        }
    }
    // Handle an increment button press.
    if (part === 'increment') {
        // Add the active class to the increment node.
        this.incrementNode.classList.add('p-mod-active');
        // Start the repeat timer.
        this._repeatTimer = setTimeout(this._onRepeat, 350);
        // Emit the step requested signal.
        this._stepRequested.emit('increment');
    }
};
```
function (d, b) {
    extendStatics(d, b);
    function __() { this.constructor = d; }
    d.prototype = b
    d.__proto__ = b; }) ||
    function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };

return {
    var extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) {
            d.__proto__ = b;
        });

module id = 338
// module chunks = 0

// Indicate no match.
    return null;

        if (scrollBar.incrementNode.contains(target)) {
            return 'increment';
        }

        if (scrollBar.decrementNode.contains(target)) {
            return 'decrement';
        }

        if (scrollBar.trackNode.contains(target)) {
            return 'track';
        }

        if (scrollBar.thumbNode.contains(target)) {
            return 'thumb';
        }

        // Test the track.
        if (scrollBar.trackNode.contains(target)) {
            return 'track';
        }

        // Test the decrement button.
        if (scrollBar.decrementNode.contains(target)) {
            return 'decrement';
        }

        // Test the thumb.
        if (scrollBar.thumbNode.contains(target)) {
            return 'thumb';
        }

        // Schedule an update of the scroll bar.
        this.update();

        // Emit the thumb moved signal.
        this._thumbMoved.emit(value);

    };

};// Merge the override with the base.
    this._maximum = Math.max(0, Math.min(value, this._maximum));

    // Bail if the value does not change.
    if (this._value === value) {
        return;
    }

    // Update the internal value to the allowed range.
    value = Math.max(0, Math.min(value, this._maximum));

    // Bail if the specified position.
    if (!scrollBar._action) {
        return;
    }

    // Get the client rect for the thumb and track.
    var thumbRect = this.thumbNode.getBoundingClientRect();
    var trackRect = this.trackNode.getBoundingClientRect();

    // Fetch the scroll geometry based on the orientation.
    var trackPos; var trackSpan;
    if (this._orientation === 'horizontal') {
        trackPos = event.clientX - trackRect.left - this._pressData.delta;
    } else {
        trackPos = event.clientX - trackRect.top - this._pressData.delta;
    }

    // Compute the desired value from the scroll geometry.
    var value = trackPos === 0 ? 0 : trackPos *
        this._maximum / trackSpan;

    // Move the thumb to the computed value.
    this._moveThumb(value);

    // Stop the event propagation.
    event.stopPropagation();

    // Release the mouse.
    this._releaseMouse();

    // Release the mouse and restore the node states.

    // Bail if there is no press data.
    if (!this._pressData) {
        return;
    }

    // Clear the repeat timer.
    clearTimeout(this._repeatTimer);
    this._repeatTimer = -1;

    // Clear the press data.
    this._pressData.override.dispose();

    // Remove the extra event listeners.
    document.removeEventListener('contextmenu', this, true);
    document.removeEventListener('keydown', this, true);
    document.removeEventListener('mousemove', this, true);
    document.removeEventListener('mouseup', this, true);

    // Remove the active classes from the nodes.
    this.thumbNode.classList.remove('p-mod-active');
    this.decrementNode.classList.remove('p-mod-active');

    // Move the thumb to the specified position.
    this._moveThumb(value);

    // Clamp the value to the allowed range.
    value = Math.max(0, Math.min(value, this._maximum));

    // Bail if the value does not change.
    if (this._value === value) {
        return;
    }

    // Update the internal value.
    this._value = value;

    // Schedule an update of the scroll bar.
    this.update();

    // Emit the thumb moved signal.
    this._thumbMoved.emit(value);

    return ScrollBar.prototype._activateThumb(true);
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```javascript
SplitPanel.prototype.handleEvent = function (event) {
    switch (event.type) {
        case 'mousedown':
            this._evtMouseDown(event);
            break;
        case 'mousemove':
            // Inserted code here
            break;
    }

    // Inserted code here
}
```

### Notes

This method implements the DOM `EventListener` interface and is called in response to events on the panel's DOM node. It should not be called directly by user code.

---

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---

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---

require("./panel");

var splitlayout_1 = require("./splitlayout");

require("./algorithm");

var algorithm_1 = require("@phosphor/algorithm");

require("@phosphor/dragdrop");

var dragdrop_1 = require("@phosphor/dragdrop");

var panel_1 = require("@phosphor/panel");

require("@phosphor/algorithm");

var algorithm_1 = require("@phosphor/algorithm");

var splitlayout_1 = require("./splitlayout");

var Panel;
this._evtMouseMove(event); break; case 'mouseup':
    break; case 'contextmenu':
    break;
    event.preventDefault();
    event.stopPropagation();
    this._evtMouseUp(event); break;
    this.prototype.onAfterDetach = function (msg) {
        this.node.removeEventListener('mousedown', this);
    };
    this.prototype.onBeforeAttach = function (msg) {
        this.node.addEventListener('mousedown', this);
    };
    this.prototype.onChildAdded = function (msg) {
        msg.child.addClass('p-SplitPanel-child');
    };
    this.prototype.onChildRemoved = function (msg) {
        msg.child.removeClass('p-SplitPanel-child');
    };
    this.prototype._evtKeyDown = function (event) {
        event.preventDefault();
        event.stopPropagation();
        if (event.keyCode === 27) {
            this._releaseMouse();
        }
    };
    this.prototype._evtMouseDown = function (event) {
        if (event.button !== 0) {
            return;
        }
        var layout = this.layout;
        var index = algorithm_1.ArrayExt.findFirstIndex(layout.handles, function (handle) {
            return handle.contains(event.target);
        });
        if (index === -1) {
            return;
        }
        layout.moveHandle(this._pressData.index, pos);
    };
    this.prototype._evtMouseMove = function (event) {
        event.preventDefault();
        event.stopPropagation();
        var pos = event.clientX - rect.left - this._pressData.delta;
        this.prototype._pressData = { index: index, delta: delta, override: override };
    };
    this.prototype._evtMouseUp = function (event) {
        if (event.button !== 0) {
            return;
        }
        event.preventDefault();
        event.stopPropagation();
        this._releaseMouse();
    };
    /* */
    this.prototype._releaseMouse = function () {
        var pos = this._pressData;
        if (pos === 0) {
            return;
        }
        var override = dragdrop_1.Drag.overrideCursor(style.cursor);
        this._pressData = { index: index, delta: delta, override: override };
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    var style = window.getComputedStyle(handle);
    var override = dragdrop_1.Drag.overrideCursor(style.cursor);
    this._pressData = { index: index, delta: delta, override: override };
    /* */
    /* */
    /* */
    this.prototype.onChildAdded = function (msg) {
        msg.child.addClass('p-SplitPanel-child');
    };
    this.prototype.onChildRemoved = function (msg) {
        msg.child.removeClass('p-SplitPanel-child');
    };
    this.prototype._evtKeyDown = function (event) {
        event.preventDefault();
        event.stopPropagation();
        if (event.keyCode === 27) {
            this._releaseMouse();
        }
    };
    this.prototype._evtMouseDown = function (event) {
        if (event.button !== 0) {
            return;
        }
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    this.prototype._evtMouseMove = function (event) {
        event.preventDefault();
        event.stopPropagation();
        var pos = event.clientX - rect.left - this._pressData.delta;
        this.prototype._pressData = { index: index, delta: delta, override: override };
    };
    this.prototype._evtMouseUp = function (event) {
        if (event.button !== 0) {
            return;
        }
        event.preventDefault();
        event.stopPropagation();
        this._releaseMouse();
    };
    this.prototype._releaseMouse = function () {
        var pos = this._pressData;
        if (pos === 0) {
            return;
        }
        var override = dragdrop_1.Drag.overrideCursor(style.cursor);
        this._pressData = { index: index, delta: delta, override: override };
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    var style = window.getComputedStyle(handle);
    var override = dragdrop_1.Drag.overrideCursor(style.cursor);
    this._pressData = { index: index, delta: delta, override: override };
    /* */
    /* */
    /* */
    this.prototype.onChildAdded = function (msg) {
        msg.child.addClass('p-SplitPanel-child');
    };
    this.prototype.onChildRemoved = function (msg) {
        msg.child.removeClass('p-SplitPanel-child');
    };
    this.prototype._evtKeyDown = function (event) {
        event.preventDefault();
        event.stopPropagation();
        if (event.keyCode === 27) {
            this._releaseMouse();
        }
    };
    this.prototype._evtMouseDown = function (event) {
        if (event.button !== 0) {
            return;
        }
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    this.prototype._evtMouseMove = function (event) {
        event.preventDefault();
        event.stopPropagation();
        var pos = event.clientX - rect.left - this._pressData.delta;
        this.prototype._pressData = { index: index, delta: delta, override: override };
    };
    this.prototype._evtMouseUp = function (event) {
        if (event.button !== 0) {
            return;
        }
        event.preventDefault();
        event.stopPropagation();
        this._releaseMouse();
    };
    this.prototype._releaseMouse = function () {
        var pos = this._pressData;
        if (pos === 0) {
            return;
        }
        var override = dragdrop_1.Drag.overrideCursor(style.cursor);
        this._pressData = { index: index, delta: delta, override: override };
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    var style = window.getComputedStyle(handle);
    var override = dragdrop_1.Drag.overrideCursor(style.cursor);
    this._pressData = { index: index, delta: delta, override: override };
    /* */
    /* */
    /* */
    this.prototype.onChildAdded = function (msg) {
        msg.child.addClass('p-SplitPanel-child');
    };
    this.prototype.onChildRemoved = function (msg) {
        msg.child.removeClass('p-SplitPanel-child');
    };
    this.prototype._evtKeyDown = function (event) {
        event.preventDefault();
        event.stopPropagation();
        if (event.keyCode === 27) {
            this._releaseMouse();
        }
    };
    this.prototype._evtMouseDown = function (event) {
        if (event.button !== 0) {
            return;
        }
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    this.prototype._evtMouseMove = function (event) {
        event.preventDefault();
        event.stopPropagation();
        var pos = event.clientX - rect.left - this._pressData.delta;
        this.prototype._pressData = { index: index, delta: delta, override: override };
    };
    this.prototype._evtMouseUp = function (event) {
        if (event.button !== 0) {
            return;
        }
        event.preventDefault();
        event.stopPropagation();
        this._releaseMouse();
    };
    this.prototype._releaseMouse = function () {
        var pos = this._pressData;
        if (pos === 0) {
            return;
        }
        var override = dragdrop_1.Drag.overrideCursor(style.cursor);
        this._pressData = { index: index, delta: delta, override: override };
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    var style = window.getComputedStyle(handle);
    var override = dragdrop_1.Drag.overrideCursor(style.cursor);
    this._pressData = { index: index, delta: delta, override: override };
    /* */
    /* */
    /* */
    this.prototype.onChildAdded = function (msg) {
        msg.child.addClass('p-SplitPanel-child');
    };
    this.prototype.onChildRemoved = function (msg) {
        msg.child.removeClass('p-SplitPanel-child');
    };
    this.prototype._evtKeyDown = function (event) {
        event.preventDefault();
        event.stopPropagation();
        if (event.keyCode === 27) {
            this._releaseMouse();
        }
    };
    this.prototype._evtMouseDown = function (event) {
        if (event.button !== 0) {
            return;
        }
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    this.prototype._evtMouseMove = function (event) {
        event.preventDefault();
        event.stopPropagation();
        var pos = event.clientX - rect.left - this._pressData.delta;
        this.prototype._pressData = { index: index, delta: delta, override: override };
    };
    this.prototype._evtMouseUp = function (event) {
        if (event.button !== 0) {
            return;
        }
        event.preventDefault();
        event.stopPropagation();
        this._releaseMouse();
    };
    this.prototype._releaseMouse = function () {
        var pos = this._pressData;
        if (pos === 0) {
            return;
        }
        var override = dragdrop_1.Drag.overrideCursor(style.cursor);
        this._pressData = { index: index, delta: delta, override: override };
        var layout = this.layout;
        var rect = this.node.getBoundingClientRect();
        if (layout.orientation === 'horizontal') {
            this._pressData.index = event.clientX - rect.left - this._pressData.delta;
        } else {
            this._pressData.index = event.clientY - rect.top - this._pressData.delta;
        }
    };
    var style = window.getComputedStyle(handle);
    var override = dragdrop_1.Drag.overrideCursor(style.cursor);
    this._pressData = { index: index, delta: delta, override: override };
    /* */
    /* */
    /* */
The namespace for the `SplitPanel` class:

```javascript
/**
 * The default implementation of `IRenderer`.
 */
(function (SplitPanel) {
    /**
     * The default `Renderer` instance.
     */
    var Renderer = (function () {
        function Renderer() {
        }
        /**
         * Create a new handle for use with a split panel.
         * @returns A new handle element for a split panel.
         */
        Renderer.prototype.createHandle = function () {
            var handle = document.createElement('div');
            handle.className = 'p-SplitPanel-handle';
            return handle;
        };;
        return Renderer;
    }());
    SplitPanel.Renderer = Renderer;
    /**
     * Create a split layout for the given panel options.
     * @param options - The options for initializing the tab panel.
     */
    function createLayout(options) {
        return options.layout || new splitlayout_1.SplitLayout({
            renderer: options.renderer || SplitPanel.defaultRenderer,
            orientation: options.orientation,
            alignment: options.alignment,
            spacing: options.spacing
        });
    }
    Private.createLayout = createLayout;
})(Private || (Private = {}));
```

---

CSS styles:

```css
.p-TabPanel-handle {
  background-color: blue;
  border: 1px solid black;
  padding: 10px;
}
```

---

JavaScript for `TabPanel`:

```javascript
var TabPanel = (function (_super) {
    __extends(TabPanel, _super);
    /**
     * Construct a new tab panel.
     * @param options - The options for initializing the tab panel.
     */
    function TabPanel(options) {
        if (options === void 0) { options = {}; }
        var _this = _super.call(this) || this;
        _this._currentChanged = new signaling_1.Signal(_this);
        _this.addClass('p-TabPanel');
        // Create the tab bar and stacked panel.
        _this.tabBar = new tabbar_1.TabBar(options);
        _this.tabBar.addClass('p-TabPanel-tabBar');
        _this.stackedPanel = new stackedpanel_1.StackedPanel();
        _this.stackedPanel.addClass('p-TabPanel-stackedPanel');
        // Connect the tab bar signal handlers.
        _this.tabBar.tabMoved.connect(_this._onTabMoved, _this);
        _this.tabBar.currentChanged.connect(_this._onCurrentChanged, _this);
        _this.tabBar.tabCloseRequested.connect(_this._onTabCloseRequested, _this);
        _this.tabBar.tabActivateRequested.connect(_this._onTabActivateRequested, _this);
        // Connect the stacked panel signal handlers.
        _this.stackedPanel.widgetRemoved.connect(_this._onWidgetRemoved, _this);
    }
    return TabPanel;
})(widget_1.Widget);
```
TabPanel.prototype.addWidget = function (widget) {
    if (widget !== this.currentWidget) {
        widget.hide();
    }
    this.insertWidget(this.widgets.length, widget);
    this.stackedPanel.insertWidget(index, widget);
    this.tabBar.insertTab(index, widget.title);
}

TabPanel.prototype.onCurrentChanged = function (sender, args) {
    var previousIndex = args.previousIndex, previousTitle = args.previousTitle, currentIndex = args.currentIndex,
        currentTitle = args.currentTitle,
        previousWidget = (previousTitle ? previousTitle.owner : null),
        currentWidget = (currentTitle ? currentTitle.owner : null);
    if (previousWidget) {
        previousWidget.hide();
    }
    if (currentWidget) {
        currentWidget.show();
    }
    this._currentChanged.emit({
        previousIndex: previousIndex, previousWidget: previousWidget,
        currentIndex: currentIndex, currentWidget: currentWidget
    });
}

TabPanel.prototype.onTabActivateRequested = function (sender, args) {
    args.title.owner.activate();
}

TabPanel.prototype.onTabCloseRequested = function (sender, args) {
    args.title.owner.close();
}

TabPanel.prototype.onTabMoved = function (sender, args) {
    this.stackedPanel.insertWidget(args.toIndex, args.title.owner);
}

TabPanel.prototype.onWidgetRemoved = function (sender, widget) {
    this.tabBar.removeTab(widget.title);
}

// WEBPACK FOOTER
// module id = 340
// module chunks = 0

```
var LayoutModel = /** @class */ (function (_super) {
  __extends(LayoutModel, _super);
  function LayoutModel() {
    return _super.apply(this, arguments)
  }
 (LayoutModel.prototype = function () {
    return
    // Register the traits that live on the Python side
    var LayoutModel.prototype.defaults = function () {
      return null,
    // Listens to changes, and set the value on change.
    this.listenTo(this.model, 'change:' + trait, function (model, value) {
      this.handleChange(trait, value);
    });
    // Set the initial value on display.
    this.handleChange(trait, null);
  });
  return
  });
  return
  });
}(widget_1.WidgetModel));
```

```
var LayoutView = /** @class */ (function (_super) {
  __extends(LayoutView, _super);
  function LayoutView() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  LayoutView.prototype.initialize = function (parameters) {
    this._traitNames = [
      // Register the traits that live on the Python side
      this.registerTrait(key);
    ];
    // Listen to changes, and set the value on change.
    this.listenTo(this.model, 'change:' + trait, function (model, value) {
      this.handleChange(trait, value);
    });
    // Set the initial value on display.
    this.handleChange(trait, null);
  };
  LayoutView.prototype.unlayout = function () {
    // Remove the styling from the parent view.
    this.parent.el.style.removeProperty(this.css_name(trait));
  };
  return
  });
```

```
var StyleModel = /** @class */ (function (_super) {
  __extends(StyleModel, _super);
  function StyleModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  StyleModel.prototype.defaults = function () {
    return
    // Register the traits that live on the Python side
    var StyelModel.prototype.defaults = function () {
      return null,
    // Listens to changes, and set the value on change.
    this.listenTo(this.model, 'change:' + trait, function (model, value) {
      this.handleChange(trait, value);
    });
    // Set the initial value on display.
    this.handleChange(trait, null);
  });
  return
  });
```

```
var StyleView = /** @class */ (function (_super) {
  __extends(StyleView, _super);
  function StyleView() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  StyleView.prototype.initialize = function (parameters) {
    this._traitNames = [
      // Register the traits that live on the Python side
      var
    };
ModelType = this.model.constructor;
for (var\_i = 0,\_a = Object.keys(ModelType.styleProperties);\_i <
\_a.length;\_i++)
{\n    var\_key = \_a[\_i];
    this.registerTrait(key);
}
// Set the initial styles

this.style();

/**
 * Register a CSS trait that is known by the model
 * @param\_trait\_uuid
 * @returns {null}
 */
StyleView.prototype.registerTrait = function (trait) {\n    var\_this = this;
    this._traitNames.push(trait);
    // Listen to changes, and set the value on change.
    this.listenTo(this.model, 'change:' + trait, function (model, value) {\n        this.handleChange(trait, value);
    });
}

/**
 * Handles when a trait value changes
 * @param\_trait\_attribute
 * @param\_parent\_view
 * @returns {null}
 */
StyleView.prototype.handleChange = function (trait, value) {\n    // should be synchronous so that we can measure later.
    var\_parent = this.options.parent;
    if (parent) {\n        var ModelType = this.model.constructor;
        var styleProperties = ModelType.styleProperties;
        var\_attribute = styleProperties[trait].attribute;
        var\_selector = styleProperties[trait].selector;
        var\_elements = selector ? parent.el.querySelectorAll(selector) : [parent.el];
        for (var i = 0; i !== \_elements.length; ++i) {
            \_elements[i].style.removeProperty(trait);
        }
    }
}

/**
 * Apply styles for all registered traits
 * @returns {null}
 */
StyleView.prototype.style = function () {\n    for (var\_i = 0,\_a = this._traitNames;\_i < \_a.length;\_i++) {\n        var\_trait = \_a[\_i];
        this.handleChange(trait, this.model.get(trait));
    }
}

/**
 * Remove the styling from the parent view.
 * @returns {null}
 */
StyleView.prototype.unstyle = function () {\n    var\_parent = this.options.parent;
    var ModelType = this.model.constructor;
    var styleProperties = ModelType.styleProperties;
    var\_trait\_names = for\(\_each\(\_function\(\_trait\)\) {\n        if (parent) {\n            var ModelType = this.model.constructor;
            var styleProperties = ModelType.styleProperties;
            var\_attribute = styleProperties[trait].attribute;
            var\_selector = styleProperties[trait].selector;
            var\_elements = selector ? parent.el.querySelectorAll(selector) : [parent.el];
            for (var i = 0; i !== \_elements.length; ++i) {
                \_elements[i].style.removeProperty(trait);
            }
        }
    };
    for (var\_i = 0,\_a = Object.keys(ModelType.styleProperties);\_i < \_a.length;\_i++) {\n        var\_key = \_a[\_i];
        this.registerTrait(key);
    }
}

/**
 * Public constructor
 * @param\_js\_services\_kernel\_instance\_clean
 * @returns {null}
 */
function Commmaker(\_js\_services\_kernel\_instance) {\n    this\_targets = Object.create(null);
    this\_comms = Object\_create\(null\);
    this\_kernel = null;
    this\_js\_services\_kernel = null;
    this\_init\_kernel(\_js\_services\_kernel);\n}

/**
 * Hookup kernel events.
 * @returns {null}
 */
Commmaker.prototype.init\_kernel = function (\_js\_services\_kernel) {\n    this\_kernel = \_js\_services\_kernel;
    // These aren't really the same.
    this\_js\_services\_kernel = \_js\_services\_kernel;
};

/**
 * Creates a new connected comm
 * @param\{string\}\_target\_name
 * @param\{object\}\_data\_name
 * @returns {null}
 */
Commmaker.prototype.new\_comm = function (\_target\_name, data, callbacks, metadata, comm\_id, buffers) {\n    var comm = new Comm(this\_js\_services\_kernel\_connect\_to\_comm(\_target\_name, comm\_id));\n    this\_register\_comm(comm);
    comm\_open(data, callbacks, metadata, buffers);\n    return comm;
}

/**
 * Register a comm\_target
 * @param\{string\}\_target\_name
 * @param\{Comm, object\}\_delegate\_void
 * @returns {null}
 */
Commmaker.prototype.register\_target\_func = function (\_target\_name, f) {\n    var\_this = this;
    var\_handle = this\_js\_services\_kernel\_register\_comm\_target(\_target\_name, function (\_js\_services\_comm) {\n        // Create the comm
        var comm = new Comm(\_js\_services\_comm);
        _this\_register\_comm(comm);
    });
    // Call the callback for the comm
    try {\n        f
    }
Open Source Used In Secure Workload 3.6.1.1  20450

```javascript
'execute_result':
                                        callbacks.iopub.output(msg);
                                        break;


guid: '/services.Comm = Comm;
})

// WEBPACK FOOTER
// ../packages/base/lib/services-shim.js
// module id = 343
// module chunks = 0

```

```javascript
Object.defineProperty(exports, '__esModule', { value: true });
/**
 * - create_view and remove_view are default functions called when adding or removing views
 * - create_view takes a model and an index and returns a view or a promise for a view for that model
 * - remove_view takes a view and destroys it (including calling `view.remove()`)
 * - each time the update() function is called with a new list, the create and remove
 * - callbacks will be called in an order so that if you append the views created in the
 * - create callback and remove
 * - the views in the remove callback, you will duplicate the list
 * - the remove callback defaults to just removing the view (e.g., pass in null for the second parameter)
 * - the context defaults to the created
 */

var ViewList = /** @class */ (function () {
    function ViewList(create_view, remove_view, context) {
        this.initialize(create_view, remove_view, context);
        // list of promises for views
        this._create_view = create_view;
        this._remove_view = remove_view || function (view) { view.remove(); };

        this.views = [];
        this._models = [];
        this._handler_context = context || this;

        this.update = function (new_models) {
            var remove = remove_view || this._remove_view;
            var create = create_view || this._create_view;
            context = context || this._handler_context;
            var i = 0;

            // first, skip past the beginning of the lists if they are identical
            for (; i < new_models.length; i++) {
                if (i >= this._models.length || new_models[i] !== this._models[i]) {
                    break;
                }
            }
            var first_removed = i;

            this.views.splice(first_removed, this.views.length - first_removed);
            for (var j = 0; j < removed.length; j++) {
                removed[j].then(function (view) { remove.call(context, view); });
            }

            this._models = new_models.slice();
            this.views = Promise.all(this.views);
            this.views.push(Promise.resolve(create.call(context, new_models[i], i)));

            this.views.forEach(function (value) { return this._remove_view.call(this._handler_context, value); });
            this._handler_context = context; // convenience function for `update()

            var _this = this;

            this._create_view = create_view;
            this._remove_view = remove_view || function (view) { view.remove(); };

            return Promise.all(this.views);
        };

        this.remove = function () {
            var _this = this;
            return Promise.all(this.views).then(function (views) {
                views.forEach(function (view) { return _this._remove_view.call(_this._handler_context, view); });
                _this.views = [];
            });
        };

        this.dispose = function () {
            this.views = null;
            this._models = null;
            return null;
        };

        return ViewList;
    }

    return ViewList;
}());
exports.ViewList = ViewList;

```

```javascript
Object.defineProperty(exports, '__esModule', { value: true });
var coreutils_1 = require('@phosphor/coreutils');
exports.IJupyterWidgetRegistry = new coreutils_1.Token('jupyter.extensions.jupyterWidgetRegistry');

```

```javascript
Object.defineProperty(exports, '__esModule', { value: true });
exports.Shims = require('@jupyterlab/shims');
exports.Shims = exports.Shims || (exports.Shims = {});
```
Development Team.\n// Distributed under the terms of the Modified BSD License.\n
var _extends = (this && this._extends) || (function () {\n    return function (\n        \n        var extendStatics = Object.setPrototypeOf || \n            \n            function (d, b) { \n                d.__proto__ = b; \n            } \n    ) \n}());

var _assign = (this && this.__assign) || Object.assign || function (t) {\n    for (var s, i = 1, n = arguments.length; i < n; i++) {\n        s = arguments[i];\n        for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];\n    }\n    return t;\n};

Object.defineProperty(exports, "__esModule", { value: true });

var base_1 = require("@jupyter-widgets/base");

var widget_core_1 = require("./widget_core");

var _ = require("underscore");

var DirectionalLinkModel = /** @class */ (function (_super) {\n    __extends(DirectionalLinkModel, _super);
    \n    function DirectionalLinkModel() {\n        return _super !== null && _super.apply(this, arguments) || this;
    }
    \n    DirectionalLinkModel.prototype.getValues = function () {\n        return _super.prototype.getValues.call(this);
    }
    \n    DirectionalLinkModel.prototype.disposeModel = function () {\n        _super.prototype.disposeModel.call(this);
        this.cleanup();
    }
    \n    DirectionalLinkModel.prototype.getChanges = function () {\n        return _super.prototype.getChanges.call(this);
    }
    \n    return DirectionalLinkModel;
}(widget_core_1.CoreWidgetModel));

exports.DirectionalLinkModel = DirectionalLinkModel;

var LinkModel = /** @class */ (function (_super) {\n    __extends(LinkModel, _super);
    \n    function LinkModel() {\n        return _super !== null && _super.apply(this, arguments) || this;
    }
    \n    LinkModel.prototype.getValues = function () {\n        return _super.prototype.getValues.call(this);
    }
    \n    LinkModel.prototype.disposeModel = function () {\n        _super.prototype.disposeModel.call(this);
    }
    \n    return LinkModel;
}(DirectionalLinkModel));

exports.LinkModel = LinkModel;
(var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };

return function (d, b) {
    extendStatics(d, b);
    function (__super) {
        return function (d, b) {
            extendStatics(d, b);
            d.prototype = b === null ? Object.create(b) : (__super.prototype = b.prototype, new (__super)());
        };
    };
})(Object);
ToggleButtonModel.prototype.defaults = function () {
    return _.extend(_super.prototype.defaults.call(this), {
        _view_name: 'ToggleButtonView',
        _model_name: 'ToggleButtonModel',
        tooltip: ",
        icon: ",
        button_style: "\n    });
};
ToggleButtonModel.prototype.defaults = function () {
    return _super.prototype.defaults.call(this), {
        _view_name: 'ToggleButtonView',
        _model_name: 'ToggleButtonModel',
        tooltip: ",
        icon: "\n    });
};
ToggleButtonView.prototype.parse = function (args) {
    this.disabled = this.model.get('disabled');
    var icon = this.model.get('icon');
    if (icon.trim().length) {
        var i = document.createElement('i');
        this.el.appendChild(i);
        i.classList.add('fa');
        i.classList.add('fa-' + icon);
    }
    this.el.appendChild(document.createTextNode(this.model.get('description')));
    this.readout = document.createElement('span');
    this.readout.classList.add('widget-valid-readout');
    i.classList.add('fa-');
    i.classList.add('fa-' + icon);
};
ValidModel.prototype.parse = function (args) {
    this.disabled = this.model.get('disabled');
    var icon = this.model.get('icon');
    if (icon.trim().length) {
        var i = document.createElement('i');
        this.el.appendChild(i);
        i.classList.add('fa-');
        i.classList.add('fa-' + icon);
    }
    this.el.appendChild(document.createTextNode(this.model.get('description')));
    this.readout = document.createElement('span');
    this.readout.classList.add('widget-valid-readout');
    i.classList.add('fa-');
    i.classList.add('fa-' + icon);
};
** Update the contents of this view

* Called when the model is changed. The model may have been changed by another view or by a state update from the back-end.

ValidView.prototype.update = function () {
    this.el.classList.remove('mod-valid');
    this.el.classList.remove('mod-invalid');

    this.readout.textContent = this.model.get('readout');

    if (this.model.get('value')) {
        this.el.classList.add('mod-valid');
    } else {
        this.el.classList.add('mod-invalid');
    }

    return ValidView.prototype.update.call(this);}

/**
 * Update the contents of this view

 * Called when the model is changed. The model may have been changed by another view or by a state update from the back-end.

 * ValidView.prototype.update = function () {
 *     this.el.classList.remove('mod-valid');
 *     this.el.classList.remove('mod-invalid');
 *
 *     if (this.model.get('value')) {
 *         this.el.classList.add('mod-valid');
 *     } else {
 *         this.el.classList.add('mod-invalid');
 *     }
*

 * return ValidView.prototype.update.call(this);
 **/

// WEBPACK FOOTER
// /packages/controls/lib/widget_bool.js
// module.id = 347
// Copyright (c) Jupyter Development Team.
// Distributed under the terms of the Modified BSD License.

var __extends = (this && this.__extends) || (function () {
    var extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) {
            d.__proto__ = b;
        }) || function (d, b) {
            for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p];
        }
;
    return function (d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };
})();

Object.defineProperty(exports, "__esModule", { value: true });

var base_1 = require("@jupyter-widgets/base");
var widget_core_1 = require("./widget_core");
var version_1 = require("./version");
var _ = require("underscore");

var ButtonStyleModel = /** @class */ (function (_super) {
    __extends(ButtonStyleModel, _super);
    function ButtonStyleModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ButtonStyleModel.prototype.defaults = function () {
        return _.extend(_super.prototype.defaults.call(this), {
            _model_name: 'ButtonStyleModel',
            _model_module: '@jupyter-widgets/controls',
            _model_module_version: version_1.JUPYTER_CONTROLS_VERSION,
            style: null
        });
    };
    ButtonStyleModel.styleProperties = {
        button_color: {
            selector: '',
            attribute: 'background-color',
            default: null
        },
        font_weight: {
            selector: '',
            attribute: 'font-weight',
            default: ''
        }
    };
    return ButtonStyleModel;
}(base_1.StyleModel));

exports.ButtonStyleModel = ButtonStyleModel;

var ButtonModel = /** @class */ (function (_super) {
    __extends(ButtonModel, _super);
    function ButtonModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ButtonModel.prototype.defaults = function () {
        return _.extend(_super.prototype.defaults.call(this), {
            description: '',
            tooltip: '',
            disabled: false,
            icon: '',
            button_style: '',
            _view_name: 'ButtonView',
            _model_name: 'ButtonModel',
            _model_module: '@jupyter-widgets/controls',
            _model_module_version: version_1.JUPYTER_CONTROLS_VERSION,
        });
    };
    return ButtonModel;
}(widget_core_1.CoreDOMWidgetModel));

exports.ButtonModel = ButtonModel;

var ButtonView = /** @class */ (function (_super) {
    __extends(ButtonView, _super);
    function ButtonView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ButtonView.prototype.render = function () {
        _super.prototype.render.call(this);

        this.el.classList.add('jupyter-widgets');
        this.el.classList.add('jupyter-button');
        this.el.classList.add('widget-button');

        this.listenTo(this.model, 'change:button_style', this.update_button_style);
        this.set_button_style();

        this.update(); // Set defaults.
    };
    ButtonView.prototype.update = function () {
        this.el.disabled = this.model.get('disabled');
        this.el.setAttribute('title', this.model.get('tooltip'));

        var description = this.model.get('description');
        var icon = this.model.get('icon');

        if (description.length || icon.length) {
            this.el.textContent = '';
            if (icon.length) {
                var i = document.createElement('i');
                i.classList.add('fa');
                i.classList.add('fa-' + icon);
                if (description.length === 0) {
                    i.classList.add('center');
                }
                this.el.appendChild(i);
            }
            this.el.appendChild(document.createTextNode(description));
        }

        return _super.prototype.update.call(this);
    };
    ButtonView.prototype.update_button_style = function () {
        this.update_mapped_classes(ButtonView.class_map, 'button_style');
    };

    ButtonView.prototype.set_button_style = function () {
        this.set_mapped_classes(ButtonView.class_map, 'button_style');
    };

    ButtonView.prototype.events =
function () {
        // TODO: return typing not needed in TypeScript later than 1.8.x
        // See http://stackoverflow.com/questions/22077023/why-cant-i-indirectly-return-an-object-literal-to-satisfy-an-index-
        // signature-re and https://github.com/Microsoft/TypeScript/pull/7029
        return { 'click': '_handle_click' };}
    }
}

// ** Postmessage function from BaseView.prototype

Object.defineProperty(ButtonView.prototype, '"tagName"', {
function () {
        // TODO: return typing not needed in Typescript later than 1.8.x
        // See http://stackoverflow.com/questions/22077023/why-cant-i-indirectly-return-an-object-literal-to-satisfy-an-index-
        // signature-re and https://github.com/Microsoft/TypeScript/pull/7029
        return { 'click': '_handle_click' };}
    }
    ButtonView.prototype._handle_click = function (event)
    {
        event.preventDefault();
        this.send({ event: 'click' });
    };
    ButtonView.prototype.tagName = function () {
        return this.get().tagName;
    };

/**
 * Handles when the button is clicked.
 */
    ButtonView.prototype._handle_click = function (event)
    {
        event.preventDefault();
        this.send({ event: 'click' });
    };

Object.defineProperty(ButtonView.prototype, "primary", {
function () {
        return this.get().primary;
    };
    ButtonView.prototype.success = function () {
        return this.get().success;
    };
    ButtonView.prototype.info = function () {
        return this.get().info;
    };
    ButtonView.prototype.warning = function () {
        return this.get().warning;
    };
    ButtonView.prototype.danger = function () {
        return this.get().danger;
    };

Object.defineProperty(ButtonView.prototype, "class_map", {
function () {
        return this.get().class_map;
    };
    ButtonView.prototype.class_name = function () {
        return this.get().class_name;
    };

/**
 * The default tag name.
 */
    ButtonView.prototype.tagName = function () {
        return this.get().tagName;
    };

Object.defineProperty(ButtonView.prototype, "_proto_", {
function () {
        return this.get()._proto_;
    };
    ButtonView.prototype._proto_ = function () {
        return this.get()._proto_;
    };

function _() { this.constructor = ButtonView; }
    this.constructor = ButtonView;

/**
 * The default tag name.
 */
    ButtonView.prototype.tagName = function () {
        return this.get().tagName;
    };

Object.defineProperty(ButtonView.prototype, "_proto_", {
function () {
        return this.get()._proto_;
    };
    ButtonView.prototype._proto_ = function () {
        return this.get()._proto_;
    };

function __extends(d, b) {
    if (Object.prototype.hasOwnProperty.call(b, '__proto__'))
        d.__proto__ = b.__proto__;
    return __extends(d, b);
}(button_1.ButtonView, ButtonView.prototype);
License.

```javascript
var __extends = (this && this.__extends) || (function () {
    var extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) {
            function __() { this.constructor = d; }
            d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };
    return function (d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };
})();
Object.defineProperty(exports, "__esModule", { value: true });
var widget_core_1 = require("./widget_core");
var widget_description_1 = require("./widget_description");
var utils_1 = require("./utils");
var _ = require("underscore");
var ColorPickerModel = /** @class */ (function (_super) {
    __extends(ColorPickerModel, _super);
    function ColorPickerModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ColorPickerModel.prototype.defaults = function () {
        return _.extend(_super.prototype.defaults.call(this), {
            value: 'black',
            concise: false,
            _model_name: 'ColorPickerModel',
            _view_name: 'ColorPickerView'
        });
    };
    return ColorPickerModel;
}(widget_core_1.CoreDescriptionModel));
exports.ColorPickerModel = ColorPickerView = /** @class */ (function (_super) {
    __extends(ColorPickerView, _super);
    function ColorPickerView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ColorPickerView.prototype.render = function () {
        _super.prototype.render.call(this);
        this.el.classList.add('jupyter-widgets');
        this.el.classList.add('widget-inline-hbox');
        this.el.classList.add('widget-colorpicker');
        this._color_container = document.createElement('div');
        this._color_container.className = 'widget-inline-hbox widget-colorpicker-input';
        this.el.appendChild(this._color_container);
        this._textbox = document.createElement('input');
        this._textbox.setAttribute('type', 'text');
        this._textbox.id = this.label.htmlFor = utils_1.uuid();
        this._color_container.appendChild(this._textbox);
        this._textbox.value = this.model.get('value');
        this._colorpicker = document.createElement('input');
        this._colorpicker.setAttribute('type', 'color');
        this._color_container.appendChild(this._colorpicker);
        this.listenTo(this.model, 'change:value', this._update_value);
        this.listenTo(this.model, 'change:concise', this._update_concise);
        this._update_concise();
        this._update_value();
        this.update();
    };
    /**
     * Update the contents of this view
     *
     * Called when the model is changed. The model may have been
     * changed by another view
     */
    ColorPickerView.prototype.update = function (options) {
        if (options === undefined || options.updated_view != this) {
            var disabled = this.model.get('disabled');
            this._textbox.disabled = disabled;
            this._colorpicker.disabled = disabled;
        }
        return _super.prototype.update.call(this);
    };
    ColorPickerView.prototype.events = function () {
        return {
            'change [type="color"]': '_picker_change',
            'change [type="text"]': '_text_change'
        };
    };
    ColorPickerView.prototype._update_value = function () {
        var value = this.model.get('value');
        this._colorpicker.value = color2hex(value);
        this._textbox.value = value;
    };
    ColorPickerView.prototype._update_concise = function () {
        var concise = this.model.get('concise');
        if (concise) {
            this.el.classList.add('concise');
            this._textbox.style.display = 'none';
        }
        else {
            this.el.classList.remove('concise');
            this._textbox.style.display = '';
        }
    };
    ColorPickerView.prototype._picker_change = function () {
        this.model.set('value', this._colorpicker.value);
        this.touch();
    };
    ColorPickerView.prototype._text_change = function () {
        var value = this._validate_color(this._textbox.value, this.model.get('value'));
        this.model.set('value', value);
        this.touch();
    };
    ColorPickerView.prototype._validate_color = function (color, fallback) {
        return color.match(/#[a-fA-F0-9]{3}(?:[a-fA-F0-9]{3})?$/) ||
            named_colors[color.toLowerCase()] ? color : fallback;
    };
    return ColorPickerView;
}(widget_description_1.DescriptionView));
exports.ColorPickerView =
```
```
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=== "vertical" ) {
			percentMouse = 1 - percentMouse;
		}

		valueTotal = this._valueMax() -
					this._valueMin();
			valueMouse = this._valueMin() + percentMouse * valueTotal;

		return
					this._trimAlignValue( valueMouse );
		},

	_uiHash: function( index, value, values ) {
		var uiHash =
					{
					handle: this.handles[ index ],
					handleIndex: index,
					value: value !== undefined ? value :
					this.value();
					this.hasMultipleValues() ) {
					uiHash.value = value !== undefined ? value :
					this.values( index ) ;
					uiHash.values = values || this.values();
					uiHash[ index ] = newVal ;
					uiHash[ index ] = Math.max( otherVal, newVal ) ;
					uiHash[ index ] = newVal ;
					uiHash[ index ] = this._trigger( "slide", event, this.uiHash( index ) ) ;
					uiHash[ index ] = A slide can be canceled by returning false from the slide callback
					( allowed
					=== false )
		},

	_start: function( event, index ) {
					return this._trigger( "start", event,
						this._uiHash( index ) );
					return this._uiHash();
					return this._uiHash();
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( mouseHandled ) {\n\t\t\treturn;\n\t\t}\n\n\t\tthis._mouseMoved = false;\n\n\t\t// We may have missed mouseup (out
of window)\n\t\t( this._mouseStarted && this._mouseUp( event ) );\n\n\t\tthis._mouseDownEvent = event;\n\n\t\tvar
that = this,\n\t\t\tbtnIsLeft = ( event.which === 1 ),\n\n\t\t\t// event.target.nodeName works around a bug in IE 8
with\n\t\t\t// disabled inputs (#7620)\n\t\t\telIsCancel = ( typeof this.options.cancel === \"string\" &&
event.target.nodeName ?\n\t\t\t\t$( event.target ).closest( this.options.cancel ).length : false );\n\t\tif ( !btnIsLeft ||
elIsCancel || !this._mouseCapture( event ) ) {\n\t\t\treturn true;\n\t\t}\n\n\t\tthis.mouseDelayMet =
!this.options.delay;\n\t\tif ( !this.mouseDelayMet ) {\n\t\t\tthis._mouseDelayTimer = setTimeout( function()
{\n\t\t\t\tthat.mouseDelayMet = true;\n\t\t\t}, this.options.delay );\n\t\t}\n\n\t\tif ( this._mouseDistanceMet( event )
&& this._mouseDelayMet( event ) ) {\n\t\t\tthis._mouseStarted = ( this._mouseStart( event ) !== false );\n\t\t\tif (
!this._mouseStarted ) {\n\t\t\t\tevent.preventDefault();\n\t\t\t\treturn true;\n\t\t\t}\n\t\t}\n\n\t\t// Click event may
never have fired (Gecko & Opera)\n\t\tif ( true === $.data( event.target, this.widgetName + \".preventClickEvent\" )
) {\n\t\t\t$.removeData( event.target, this.widgetName + \".preventClickEvent\" );\n\t\t}\n\n\t\t// These delegates are
required to keep context\n\t\tthis._mouseMoveDelegate = function( event ) {\n\t\t\treturn that._mouseMove( event
);\n\t\t};\n\t\tthis._mouseUpDelegate = function( event ) {\n\t\t\treturn that._mouseUp( event
);\n\t\t};\n\n\t\tthis.document\n\t\t\t.on( \"mousemove.\" + this.widgetName, this._mouseMoveDelegate )\n\t\t\t.on(
\"mouseup.\" + this.widgetName, this._mouseUpDelegate );\n\n\t\tevent.preventDefault();\n\n\t\tmouseHandled =
true;\n\t\treturn true;\n\t},\n\n\t_mouseMove: function( event ) {\n\n\t\t// Only check for mouseups outside the
document if you've moved inside the document\n\t\t// at least once. This prevents the firing of mouseup in the case
of IE<9, which will\n\t\t// fire a mousemove event if content is placed under the cursor. See #7778\n\t\t// Support: IE
<9\n\t\tif ( this._mouseMoved ) {\n\n\t\t\t// IE mouseup check - mouseup happened when mouse was out of
window\n\t\t\tif ( $.ui.ie && ( !document.documentMode || document.documentMode < 9 )
&&\n\t\t\t\t\t!event.button ) {\n\t\t\t\treturn this._mouseUp( event );\n\n\t\t\t// Iframe mouseup check - mouseup
occurred in another document\n\t\t\t} else if ( !event.which ) {\n\n\t\t\t\t// Support: Safari <=8 - 9\n\t\t\t\t// Safari sets
which to 0 if you press any of the following keys\n\t\t\t\t// during a drag (#14461)\n\t\t\t\tif (
event.originalEvent.altKey || event.originalEvent.ctrlKey ||\n\t\t\t\t\t\tevent.originalEvent.metaKey ||
event.originalEvent.shiftKey ) {\n\t\t\t\t\tthis.ignoreMissingWhich = true;\n\t\t\t\t} else if (
!this.ignoreMissingWhich ) {\n\t\t\t\t\treturn this._mouseUp( event );\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\n\t\tif ( event.which ||
event.button ) {\n\t\t\tthis._mouseMoved = true;\n\t\t}\n\n\t\tif ( this._mouseStarted ) {\n\t\t\tthis._mouseDrag( event
);\n\t\t\treturn event.preventDefault();\n\t\t}\n\n\t\tif ( this._mouseDistanceMet( event ) && this._mouseDelayMet(
event ) ) {\n\t\t\tthis._mouseStarted =\n\t\t\t\t( this._mouseStart( this._mouseDownEvent, event ) !== false );\n\t\t\t(
this._mouseStarted ? this._mouseDrag( event ) : this._mouseUp( event ) );\n\t\t}\n\n\t\treturn
!this._mouseStarted;\n\t},\n\n\t_mouseUp: function( event ) {\n\t\tthis.document\n\t\t\t.off( \"mousemove.\" +
this.widgetName, this._mouseMoveDelegate )\n\t\t\t.off( \"mouseup.\" + this.widgetName, this._mouseUpDelegate
);\n\n\t\tif ( this._mouseStarted ) {\n\t\t\tthis._mouseStarted = false;\n\n\t\t\tif ( event.target ===
this._mouseDownEvent.target ) {\n\t\t\t\t$.data( event.target, this.widgetName + \".preventClickEvent\", true
);\n\t\t\t}\n\n\t\t\tthis._mouseStop( event );\n\t\t}\n\n\t\tif ( this._mouseDelayTimer ) {\n\t\t\tclearTimeout(
this._mouseDelayTimer );\n\t\t\tdelete this._mouseDelayTimer;\n\t\t}\n\n\t\tthis.ignoreMissingWhich =
false;\n\t\tmouseHandled = false;\n\t\tevent.preventDefault();\n\t},\n\n\t_mouseDistanceMet: function( event )
{\n\t\treturn ( Math.max(\n\t\t\t\tMath.abs( this._mouseDownEvent.pageX - event.pageX ),\n\t\t\t\tMath.abs(
this._mouseDownEvent.pageY - event.pageY )\n\t\t\t) >= this.options.distance\n\t\t);\n\t},\n\n\t_mouseDelayMet:
function( /* event */ ) {\n\t\treturn this.mouseDelayMet;\n\t},\n\n\t// These are placeholder methods, to be overriden
by extending plugin\n\t_mouseStart: function( /* event */ ) {},\n\t_mouseDrag: function( /* event */ )
{},\n\t_mouseStop: function( /* event */ ) {},\n\t_mouseCapture: function( /* event */ ) { return true; }\n} );\n\n} )
);\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ../node_modules/jquery-ui/ui/widgets/mouse.js\n// module id =
353\n// module chunks = 0","( function( factory ) {\n\tif ( typeof define === \"function\" && define.amd ) {\n\n\t\t//
AMD. Register as an anonymous module.\n\t\tdefine( [ \"jquery\", \"./version\" ], factory );\n\t} else {\n\n\t\t//
Browser globals\n\t\tfactory( jQuery );\n\t}\n} ( function( $ ) {\n\n// This file is deprecated\nreturn $.ui.ie = !!/msie
[\\w.]+/.exec( navigator.userAgent.toLowerCase() );\n} ) );\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//

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../node_modules/jquery-ui/ui/ie.js
/*!
 * jQuery UI Keycode 1.12.1
 * http://jqueryui.com
 *
 * Copyright jQuery Foundation and other contributors (see COPYRIGHT)
 * Released under the MIT License.
 *
 * Browser globals:
 * $: jQuery
 * jQuery_ui: jQuery UI namespace
 */

(function( $ ) {

	/*!
	 * jQuery UI Keycodes 1.12.1
	 * http://jqueryui.com
	 * Copyright jQuery Foundation and other contributors (see COPYRIGHT)
	 * Released under the MIT License.
	 */

	// module id = 355
	// module chunks = 0

	// Copyright (c) Jupyter Development Team.
	// Distributed under the terms of the Modified BSD License.

})(jQuery);
function FloatRangeSliderView() {
    var _this = _super !== null && _super.apply(this, arguments) || this;
    _this._parse_value = parseFloat;
    // matches: whitespace?, float, whitespace?, (hyphen, colon, or en-dash),
    whitespace?, float
    _this._range_regex = /^\s*([-+]?(?:\d*\.?\d+|\d+\.)(?:[eE]([-+])?\d+)?)\s*[-:]–\s*([-+]?(?:\d*\.?\d+|\d+\.)(?:[eE]([-+])?\d+)?)$/;
    return _this;
}

/**
 * Validate the value of the slider
 * before sending it to the back-end
 * and applying it to the other views on the page.
 */
FloatRangeSliderView.prototype._validate_slide_value = function (x) {
    return x;
};
return FloatRangeSliderView;
})(widget_int_1.IntRangeSliderView);exports.FloatRangeSliderView = FloatRangeSliderView;

var FloatTextModel = /** @class */ (function (_super) {
    __extends(FloatTextModel, _super);
    function FloatTextModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    FloatTextModel.prototype.defaults = function () {
        return _.extend(_super.prototype.defaults.call(this), {
            _model_name: 'FloatTextModel',
            _view_name: 'FloatTextView',
            disabled: false,
            continuous_update: false
        });
    };
    return FloatTextModel;
}(FloatModel));exports.FloatTextModel = FloatTextModel;

var BoundedFloatTextModel = /** @class */ (function (_super) {
    __extends(BoundedFloatTextModel, _super);
    function BoundedFloatTextModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    BoundedFloatTextModel.prototype.defaults = function () {
        return _.extend(_super.prototype.defaults.call(this), {
            _model_name: 'BoundedFloatTextModel',
            _view_name: 'FloatTextView',
            disabled: false,
            continuous_update: false,
            step: 0.1
        });
    };
    return BoundedFloatTextModel;
}(BoundedFloatModel));exports.BoundedFloatTextModel = BoundedFloatTextModel;

var FloatTextView = /** @class */ (function (_super) {
    __extends(FloatTextView, _super);
    function FloatTextView() {
        var _this = _super !== null && _super.apply(this, arguments) || this;
        _this._parse_value = parseFloat;
        _this._default_step = 'any';
        return _this;
    }
    return FloatTextView;
}(widget_int_1.IntTextView));exports.FloatTextView = FloatTextView;

var FloatProgressModel = /** @class */ (function (_super) {
    __extends(FloatProgressModel, _super);
    function FloatProgressModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    FloatProgressModel.prototype.defaults = function () {
        return _.extend(_super.prototype.defaults.call(this), {
            _model_name: 'FloatProgressModel',
            _view_name: 'ProgressView',
            orientation: 'horizontal',
            bar_style: '',
            style: null
        });
    };
    return FloatProgressModel;
}(BoundedFloatModel));exports.FloatProgressModel = FloatProgressModel;

module id = 356
module chunks = 0
"""use strict"""
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(function () {
    var extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) {
            d.__proto__ = b; }) ||
        function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
    function _extends(d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };
    var __assign = (this && this.__assign) || Object.assign || function (t) {
        for (var s, i = 1, n = arguments.length; i < n; i++) {
            s = arguments[i];
            for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p))
                t[p] = s[p];
        }
        return t;
    };
    Object.defineProperty(exports, '__esModule', { value: true });
    var widget_core_1 = require("./widget_core");
    var base_1 = require("@jupyter-widgets/base");
    var _ = require("underscore");
    var utils = require("./utils");
    var ControllerButtonModel = /** @class */ (function (_super) {
        __extends(ControllerButtonModel, _super);
        function ControllerButtonModel() {
            return _super !== null && _super.apply(this, arguments) || this;
        }
        ControllerButtonModel.prototype.defaults = function () {
            return _.extend(_super.prototype.defaults.call(this), {
                _model_name: 'ControllerButtonModel',
                _view_name: 'ControllerButtonView',
                value: 0.0,
                pressed: false
            });
        };
        return ControllerButtonModel;
    }(widget_core_1.CoreDOMWidgetModel));exports.ControllerButtonModel = ControllerButtonModel;

var ControllerButtonView = /** @class */ (function (_super) {
    __extends(ControllerButtonView, _super);
    function ControllerButtonView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    return ControllerButtonView;
}(widget_int_1.IntDOMWidgetView));exports.ControllerButtonView = ControllerButtonView;
ControllerButtonView.prototype.render = function () {
    this.el.classList.add('jupyter-widgets');
    this.el.classList.add('widget-controller-button');
    this.support = document.createElement('div');
    this.support.style.position = 'relative';
    this.support.style.margin = '1px';
    this.support.style.width = '16px';
    this.support.style.height = '16px';
    this.support.style.border = '1px solid black';
    this.support.style.background = 'lightgray';
    this.el.appendChild(this.support);
    this.bar = document.createElement('div');
    this.bar.style.position = 'absolute';
    this.bar.style.width = '100%';
    this.bar.style.border = '1px solid black';
    this.bar.style.background = 'gray';
    this.support.appendChild(this.bar);
    this.update();
    this.label = document.createElement('div');
    this.label.textContent = this.model.get('description');
    this.label.style.textAlign = 'center';
    this.el.appendChild(this.label);
}

ControllerButtonView.prototype.update = function () {
    this.bar.style.height = (100 * this.model.get('value')) + '%';
}

ControllerButtonView = ControllerButtonView.valueOf
(exports.ControllerButtonView);
exports.ControllerButtonView =
ControllerButtonView;

var ControllerAxisModel = /** @class */ (function (_super) {
    __extends(ControllerAxisModel, _super);
    function ControllerAxisModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ControllerAxisModel.prototype.defaults = function () {
        return
    };
    ControllerAxisModel.prototype.valueOf
(exports.ControllerAxisModel);
exports.ControllerAxisModel =
ControllerAxisModel;

var ControllerAxisView = /** @class */ (function (_super) {
    __extends(ControllerAxisView, _super);
    function ControllerAxisView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ControllerAxisView.prototype.render = function () {
        this.el.classList.add('jupyter-widgets');
        this.el.classList.add('widget-controller-axis');
        this.el.style.width = '16px';
        this.el.style.padding = '4px';
        this.support = document.createElement('div');
        this.support.style.position = 'relative';
        this.support.style.margin = '1px';
        this.support.style.width = '4px';
        this.support.style.height = '64px';
        this.support.style.border = '1px solid black';
        this.support.style.background = 'lightgray';
        this.bullet = document.createElement('div');
        this.bullet.style.position = 'absolute';
        this.bullet.style.margin = '-4px';
        this.bullet.style.width = '10px';
        this.bullet.style.height = '10px';
        this.bullet.style.background = 'gray';
        this.label = document.createElement('div');
        this.label.textContent = this.model.get('description');
        this.label.style.textAlign = 'center';
        this.support.appendChild(this.bullet);
        this.el.appendChild(this.support);
        this.el.appendChild(this.label);
        this.update();
    };
    ControllerAxisView.prototype.update = function () {
        this.bullet.style.top = (50 * (this.model.get('value') + 1)) + '%';
    }
    return ControllerAxisView;
}(base_1.DOMWidgetView));
exports.ControllerAxisView =
ControllerAxisView;

var ControllerModel = /** @class */ (function (_super) {
    __extends(ControllerModel, _super);
    function ControllerModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    ControllerModel.prototype.defaults = function () {
        return
    };
    ControllerModel.prototype.valueOf
(exports.ControllerModel);
exports.ControllerModel =
ControllerModel;

var Controller = /** @class */ (function (_super) {
    __extends(Controller, _super);
    function Controller() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    Controller.prototype.valueOf
(exports.Controller);
exports.Controller =
Controller;
this.get('index');
var pad = navigator.getGamepads()[index];
if (pad) {
    var that_1 = this;
    this.setup(pad).then(function (controls) {
        that_1.set(controls);
        that_1.save_changes();
        window.requestAnimationFrame(that_1.update_loop.bind(that_1));
    });
}
else {
    window.requestAnimationFrame(this.wait_loop.bind(this));
}
/**
 * Given a native gamepad object, returns a promise for a dictionary of
 * controls, of the form:
 * { buttons: list of Button models,
 *   axes: list of Axis models }
 */
ControllerModel.prototype.setup = function (pad) {
    // Set up the main gamepad attributes
    this.set({
        name: pad.id,
        id: pad.id,
        mapping: pad.mapping,
        connected: pad.connected,
        timestamp: pad.timestamp
    });
    // Create buttons and axes. When done, start the update loop
    var index = this.get('index');
    var id = this.get('name');
    var pad = navigator.getGamepads()[index];
    if (pad && index === pad.index && id === pad.id) {
        this.set({
            timestamp: pad.timestamp,
            connected: pad.connected
        });
        this.save_changes();
        this.get('buttons').forEach(function (model, index) {
            model.set({
                value: pad.buttons[index].value,
                pressed: pad.buttons[index].pressed
            });
            model.save_changes();
        });
        this.get('axes').forEach(function (model, index) {
            model.set('value', pad.axes[index]);
            model.save_changes();
        });
        window.requestAnimationFrame(this.update_loop.bind(this));
    }
    else {
        this.reset_gamepad();
    }
}
/**
 * Resets the gamepad attributes, and start the wait_loop.
 */
ControllerModel.prototype.reset_gamepad = function () {
    this.button_views.close();
    this.axis_views.close();
    this.set({
        name: '',
        id: '',
        mapping: '',
        connected: false,
        timestamp: 0.0,
        buttons: [],
        axes: []
    });
    this.save_changes();
    window.requestAnimationFrame(this.wait_loop.bind(this));
}
/**
 * Creates a gamepad button widget.
 */
ControllerModel.prototype._create_button_model = function (index) {
    return this.widget_manager.new_widget({
        model_name: 'ControllerButtonModel',
        model_module: '@jupyter-widgets/controls',
        model_module_version: this.get('_model_module_version'),
        view_name: 'ControllerButtonView',
        view_module: '@jupyter-widgets/controls',
        view_module_version: this.get('_view_module_version'),
    }).then(function (model) {
        model.set({
            description: index
        });
        return model;
    });
}
/**
 * Creates a gamepad axis widget.
 */
ControllerModel.prototype._create_axis_model = function (index) {
    return this.widget_manager.new_widget({
        model_name: 'ControllerAxisModel',
        model_module: '@jupyter-widgets/controls',
        model_module_version: this.get('_model_module_version'),
        view_name: 'ControllerAxisView',
        view_module: '@jupyter-widgets/controls',
        view_module_version: this.get('_view_module_version'),
    }).then(function (model) {
        model.set({
            description: index
        });
        return model;
    });
}
ControllerModel.serializers =
    __assign({}, widget_core_1.CoreDOMWidgetModel.serializers, { buttons: { deserialize: base_1.unpack_models },
    axes: { deserialize: base_1.unpack_models } });

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this.listenTo(this.model, 'change:axes', function (model, value) {\n
this.axis_views.update(value);\n
});\n
this.listenTo(this.model, 'change:name', this.update_label);\n };\n ControllerView.prototype.render =
function () {\n
this.el.classList.add('jupyter-widgets');\n
this.el.classList.add('widget-controller');\n
this.box = this.el;\n
this.label = document.createElement('div');\n
this.box.appendChild(this.label);\n
this.axis_box = document.createElement('div');\n
this.axis_box.style.display = 'flex';\n
this.box.appendChild(this.axis_box);\n
this.button_box = document.createElement('div');\n
this.button_box.style.display = 'flex';\n
this.box.appendChild(this.button_box);\n
this.button_views.update(this.model.get('buttons'));\n
this.axis_views.update(this.model.get('axes'));\n
this.update_label();\n };\n ControllerView.prototype.update_label = function () {\n
this.label.textContent =
this.model.get('name') || this.model.readout;\n };\n ControllerView.prototype.add_button = function (model) {\n
var that = this;\n
var dummy = document.createElement('div');\n
that.button_box.appendChild(dummy);\n
return this.create_child_view(model).then(function (view) {\n
that.button_box.replaceChild(view.el, dummy);\n
that.displayed.then(function () {\n
view.trigger('displayed', that);\n
});\n
return view;\n
}).catch(utils.reject('Could not add button
view', true));\n };\n ControllerView.prototype.add_axis = function (model) {\n
var that = this;\n
var
dummy = document.createElement('div');\n
that.axis_box.appendChild(dummy);\n
return
this.create_child_view(model).then(function (view) {\n
that.axis_box.replaceChild(view.el, dummy);\n
that.displayed.then(function () {\n
view.trigger('displayed', that);\n
});\n
return view;\n
}).catch(utils.reject('Could not add axis view', true));\n };\n ControllerView.prototype.remove = function () {\n
_super.prototype.remove.call(this);\n
this.button_views.remove();\n
this.axis_views.remove();\n };\n
return ControllerView;\n}(base_1.DOMWidgetView));\nexports.ControllerView =
ControllerView;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ../packages/controls/lib/widget_controller.js\n//
module id = 357\n// module chunks = 0","\"use strict\";\n// Copyright (c) Jupyter Development Team.\n//
Distributed under the terms of the Modified BSD License.\nvar __extends = (this && this.__extends) || (function ()
{\n var extendStatics = Object.setPrototypeOf ||\n
({ __proto__: [] } instanceof Array && function (d, b) {
d.__proto__ = b; }) ||\n
function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };\n return
function (d, b) {\n
extendStatics(d, b);\n
function __() { this.constructor = d; }\n
d.prototype = b ===
null ? Object.create(b) : (__.prototype = b.prototype, new __());\n };\n})();\nvar __assign = (this &&
this.__assign) || Object.assign || function(t) {\n for (var s, i = 1, n = arguments.length; i < n; i++) {\n
s=
arguments[i];\n
for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p))\n
t[p] = s[p];\n }\n
return t;\n};\nObject.defineProperty(exports, \"__esModule\", { value: true });\nvar widget_core_1 =
require(\"./widget_core\");\nvar widget_description_1 = require(\"./widget_description\");\nvar utils_1 =
require(\"./utils\");\nvar _ = require(\"underscore\");\nvar utils = require(\"./utils\");\nvar $ =
require(\"jquery\");\nfunction scrollIfNeeded(area, elem) {\n var ar = area.getBoundingClientRect();\n var er =
elem.getBoundingClientRect();\n if (er.top < ar.top) {\n
area.scrollTop -= ar.top - er.top;\n }\n else if
(er.bottom > ar.bottom) {\n
area.scrollTop += er.bottom - ar.bottom;\n }\n}\nvar SelectionModel = /** @class
*/ (function (_super) {\n __extends(SelectionModel, _super);\n function SelectionModel() {\n
return _super
!== null && _super.apply(this, arguments) || this;\n }\n SelectionModel.prototype.defaults = function () {\n
return __assign({}, _super.prototype.defaults.call(this), { _model_name: 'SelectionModel', index: '', _options_labels:
[], disabled: false });\n };\n return
SelectionModel;\n}(widget_core_1.CoreDescriptionModel));\nexports.SelectionModel = SelectionModel;\nvar
DropdownModel = /** @class */ (function (_super) {\n __extends(DropdownModel, _super);\n function
DropdownModel() {\n
return _super !== null && _super.apply(this, arguments) || this;\n }\n
DropdownModel.prototype.defaults = function () {\n
return __assign({}, _super.prototype.defaults.call(this), {
_model_name: 'DropdownModel', _view_name: 'DropdownView', button_style: '' });\n };\n return
DropdownModel;\n}(SelectionModel));\nexports.DropdownModel = DropdownModel;\n// TODO: Make a
phosphor dropdown control, wrapped in DropdownView. Also, fix\n// bugs in keyboard handling. See\n//
https://github.com/jupyter-widgets/ipywidgets/issues/1055 and\n// https://github.com/jupyter-

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widgets/ipywidgets/issues/1049

For now, we subclass SelectView to provide DropdownView

For the old code, see commit f68b8b6c566fa78af3350b438bd8ed523ce3642.unvar DropdownView = /** @class */ (function (_super) { 
    __extends(DropdownView, _super); 
    function DropdownView() { 
        return _super !== null && _super.apply(this, arguments) || this; 
    } 
    /**
     * Public constructor.
     */
    DropdownView.prototype.initialize = function (parameters) { 
        var this = this; 
        DropdownView.prototype.initialize.call(this, parameters); 
        this.listenTo(this.model, 'change:_options_labels', function () { 
            return this._updateOptions(); 
        }); 
        this.listenTo(this.model, 'change:index', function (model, value, options) { 
            return this.updateSelection(options); 
        }); 
        this._updateOptions(); 
        this.update(); 
    };
    /**
     * Update the contents of this view
     */
    DropdownView.prototype.update = function () { 
        DropdownView.prototype.update.call(this); 
        this._updateOptions(); 
        this.updateSelection(); 
    };
    /**
     * Update the contents of this view
     */
    DropdownView.prototype.updateSelection = function (options) { 
        if (options === void 0) { 
            options = {}; 
        } 
        var index = this.model.get('index'); 
        this.listbox.selectedIndex = index === null ? -1 : index; 
        this.updateSelection(); 
    };
    DropdownView.prototype._updateOptions = function () { 
        this.listbox.textContent = ''; 
        var items = this.model.get('_options_labels'); 
        for (var i = 0; i < items.length; i++) { 
            var item = items[i]; 
            var option = document.createElement('option'); 
            option.textContent = item.replace(/ /g, '\xa0'); // space ->
            option.setAttribute('data-value', encodeURIComponent(item)); 
            option.value = item;
            this.listbox.appendChild(option);
        }
    };
    return DropdownView;
}(widget_description_1.DescriptionView));

exports.DropdownView = DropdownView;

var SelectModel = /** @class */ (function (_super) { 
    __extends(SelectModel, _super); 
    function SelectModel() { 
        return _super !== null && _super.apply(this, arguments) || this; 
    } 
    SelectModel.prototype.defaults = function () { 
        return __assign({}, _super.prototype.defaults.call(this), { _model_name: 'SelectModel', _view_name: 'SelectView', rows: 5 }); 
    };
    return SelectModel;
}(SelectionModel));

exports.SelectModel = SelectModel;

var SelectView = /** @class */ (function (_super) { 
    __extends(SelectView, _super); 
    function SelectView() { 
        return _super !== null && _super.apply(this, arguments) || this; 
    } 
    /**
     * Public constructor.
     */
    SelectView.prototype.initialize = function (parameters) { 
        var this = this; 
        SelectView.prototype.initialize.call(this, parameters); 
        this.listenTo(this.model, 'change:_options_labels', function () { 
            return this._updateOptions(); 
        }); 
        this.listenTo(this.model, 'change:index', function (model, value, options) { 
            return this.updateSelection(options); 
        }); 
        // Create listbox here so that subclasses can modify it before it is 
        populated in render()
        this.listbox = document.createElement('select'); 
        this.listbox.id = this.label.htmlFor = utils_1.uuid();
        this.updateSelection(); 
        this.update(); 
    };
    /**
     * Public constructor.
     */
    SelectView.prototype.prototype.initialize = function (parameters) { 
        var this = this; 
        SelectView.prototype.prototype.initialize.call(this, parameters); 
        this.listenTo(this.model, 'change:_options_labels', function () { 
            return this._updateOptions(); 
        }); 
        this.listenTo(this.model, 'change:index', function (model, value, options) { 
            return this.updateSelection(options); 
        });
    };
    SelectView.prototype.prototype._updateOptions = function () { 
        this.listbox.textContent = ''; 
        var items = this.model.get('_options_labels'); 
        for (var i = 0; i < items.length; i++) { 
            var item = items[i]; 
            var option = document.createElement('option'); 
            option.textContent = item.replace(/ /g, '\xa0'); // space ->
            option.setAttribute('data-value', encodeURIComponent(item)); 
            option.value = item;
            this.listbox.appendChild(option);
        }
    };
    SelectView.prototype.prototype._updateOptions = function () { 
        this.listbox.textContent = ''; 
        var items = this.model.get('_options_labels'); 
        for (var i = 0; i < items.length; i++) { 
            var item = items[i];
            var option = document.createElement('option'); 
            option.textContent = item.replace(/ /g, '\xa0'); // space ->
            option.setAttribute('data-value', encodeURIComponent(item)); 
            option.value = item;
            this.listbox.appendChild(option);
        }
    };
    return SelectView;
}(widget_description_1.DescriptionView));

exports.SelectView = SelectView;
```javascript
option.setAttribute('data-value', encodeURIComponent(item));
option.value = item;
this.listbox.appendChild(option);
}
);
/**
 * Handle when a new value is selected.
 */
SelectView.prototype._handle_change = function () {
    this.model.set('index', this.listbox.selectedIndex, {
        updated_view: this
    });
    this.touch();
    return
};
exports.SelectView = SelectView;
var
RadioButtonsModel = /** @class */ (function (_super) {
    __extends(RadioButtonsModel, _super);
    function
RadioButtonsModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    RadioButtonsModel.prototype.defaults = function () {
        return __assign({}, _super.prototype.defaults.call(this),
    };
    return RadioButtonsModel;
}(SelectionModel));
exports.RadioButtonsModel = RadioButtonsModel;
var
RadioButtonsView = /** @class */ (function (_super) {
    __extends(RadioButtonsView, _super);
    function
RadioButtonsView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    /**
     * Called when view is rendered.
     */
    RadioButtonsView.prototype.render = function () {
        _super.prototype.render.call(this);
        this.el.classList.add('jupyter-widgets');
        this.el.classList.add('widget-inline-hbox');
        this.el.classList.add('widget-radio');
        this.container = document.createElement('div');
        this.el.appendChild(this.container);
        this.container.classList.add('widget-radio-box');
        this.update();
    };
    /**
     * Update the contents of this view
     * Called when the model is changed. The model may
     * have been changed by another view or by a state update from the back-end.
     */
    RadioButtonsView.prototype.update = function (options) {
        var view = this;
        var items = this.model.get('_options_labels');
        var radios = _.pluck(this.container.querySelectorAll('input[type="radio"]'), 'value');
        var stale = items.length != radios.length;
        if (!stale) {
            for (var i = 0, len = items.length; i < len; ++i) {
                if (radios[i] !== items[i]) {
                    stale = true;
                    break;
                }
            }
        }
        if (stale && (options === undefined || options.updated_view !== this)) {
            // Add items to
            this.container.textContent = '';
            items.forEach(function (item, index) {
                var label = document.createElement('label');
                label.textContent = item;
                this.container.appendChild(label);
                var radio = document.createElement('input');
                radio.setAttribute('type', 'radio');
                radio.value = index.toString();
                radio.setAttribute('data-value', encodeURIComponent(item));
                label.appendChild(radio);
            });
        }
        items.forEach(function (item, index) {
            var item_query = 'input[data-value="' + encodeURIComponent(item) + '"]';
            var radio = this.container.querySelectorAll(item_query);
            if (radio.length > 0) {
                var radio_el = radio[0];
                radio_el.checked = view.model.get('index') === index;
                radio_el.disabled = view.model.get('disabled');
            }
        });
        // Schedule
        setTimeout(this.adjustPadding, 0, this);
    };
    /**
     * Adjust Padding to Multiple of Line Height
     * Adjust margins so that the overall height is a multiple of a single line height.
     * This widget needs it because radio options are spaced tighter than individual widgets
     * yet we would like the full widget line up properly when displayed side-by-side with other widgets.
     */
    RadioButtonsView.prototype.adjustPadding = function (e) {
        // Vertical margins on a widget
        var container = e.container,
            labelHeight = e.label.offsetHeight + margins;
        // Current adjustment value on this widget
        var cStyles = window.getComputedStyle(e.container);
        var containerMargin = parseInt(cStyles.marginTop) + parseInt(cStyles.marginBottom);
        // Total spaces taken by a single-line widget
        var lineHeight = c.label.offsetHeight + margins;
        var elStyles = window.getComputedStyle(e.el);
        var varInt = parseInt(elStyles.marginTop) + parseInt(elStyles.marginBottom);
        // How far we are off from a multiple of single widget line
        var diff = (e.el.offsetHeight + margins - containerMargin) % lineHeight;
        // Apply the new adjustment
        var extraMargin = diff == 0 ? 0 : (lineHeight - diff);
        e.container.style.marginBottom = extraMargin + 'px';
    };
    RadioButtonsView.prototype.events = function () {
        return
            { 'click input[type="radio"]': `_handle_click`
            };
    };
});
```
trigger all of the other views of the
  * model to update.
  */
RadioButtonsView.prototype._handle_click = function (event) {
  this.model.set('index', parseInt(event.target.value), { updated_view: this });
  this.touch();
}
RadioButtonsView = RadioButtonsView;
exports.RadioButtonsView =
RadioButtonsView;

var ToggleButtonsStyleModel = /** @class */ (function (_super) {
  __extends(ToggleButtonsStyleModel, _super);
  function ToggleButtonsStyleModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  ToggleButtonsStyleModel.prototype.defaults = function () {
    return 
    ToggleButtonsStyleModel.prototype.defaults.call(this), { _model_name: 'ToggleButtonsStyleModel', _view_name: 'ToggleButtonsView' }
  };
  ToggleButtonsStyleModel.styleProperties = 
  ToggleButtonsStyleModel.prototype.initialize = function (options) {
    this._css_state = {};
    _super.prototype.initialize.call(this, options);
    this.listenTo(this.model, 'change:button_style', this.update_button_style);
  };
  ToggleButtonsView.prototype.render = function () {
    _super.prototype.render.call(this);
    this.el.classList.add('jupyter-widgets');
    this.el.classList.add('widget-inline-hbox');
    this.el.classList.add('widget-toggle-buttons');
    this.buttongroup = document.createElement('div');
    this.el.appendChild(this.buttongroup);
    this.update();
    this.set_button_style();
  };
  ToggleButtonsView.prototype.update = function () {
    var view = this;
    var items = this.model.get('_options_labels');
    var icons = this.model.get('icons') || [];
    var previous_icons = this.model.previous('icons') || [];
    var previous_bstyle = ToggleButtonsView.classMap[this.model.previous('button_style')];
    var tooltips = this.model.get('tooltips') || [];
    var disabled = this.model.get('disabled');
    var buttons = this.buttongroup.querySelectorAll('button');
    var values = _.pluck(buttons, 'value');
    var stale = false;
    for (var i = 0, len = items.length; i < len; ++i) {
      if (values[i] !== items[i] || icons[i] !== previous_icons[i]) {
        stale = true;
        break;
      }
    }
    if (stale) {
      // Add items to the DOM.
      this.buttongroup.textContent = '';
      items.forEach(function (item, index) {
        var item_html;
        var empty = item.trim().length === 0;
        if (empty) {
          item_html = ' ';
        } else {
          item_html = utils.escape_html(item);
        }
        var icon = document.createElement('i');
        var button = document.createElement('button');
        if (icons[index]) {
          icon.className = 'fa fa-' + icons[index];
        }
        button.setAttribute('type', 'button');
        button.className = 'widget-toggle-button jupyter-button';
        if (previous_bstyle) {
          button.classList.add(previous_bstyle);
        }
        button.innerHTML = item_html;
        button.setAttribute('data-value', encodeURIComponent(item));
        button.setAttribute('value', index.toString());
        button.appendChild(icon);
        button.disabled = disabled;
        if (tooltips[index]) {
          button.setAttribute('title', tooltips[index]);
        }
      });
      // Called when view is rendered.
      if (stale) {
        this.buttongroup.textContent = '';
        items.forEach(function (item, index) {
          var item_html;
          var empty = item.trim().length === 0;
          if (empty) {
            item_html = ' ';
          } else {
            item_html = utils.escape_html(item);
          }
          var icon = document.createElement('i');
          var button = document.createElement('button');
          if (icons[index]) {
            icon.className = 'fa fa-' + icons[index];
          }
          button.setAttribute('type', 'button');
          button.className = 'widget-toggle-button jupyter-button';
          if (previous_bstyle) {
            button.classList.add(previous_bstyle);
          }
          button.innerHTML = item_html;
          button.setAttribute('data-value', encodeURIComponent(item));
          button.setAttribute('value', index.toString());
          button.appendChild(icon);
          button.disabled = disabled;
          if (tooltips[index]) {
            button.setAttribute('title', tooltips[index]);
          }
        });
      } else {
        // Update the contents of this view
        // * Called when the model is changed.
        this.buttongroup.textContent = '';
        items.forEach(function (item, index) {
          var item_html;
          var empty = item.trim().length === 0;
          if (empty) {
            item_html = ' ';
          } else {
            item_html = utils.escape_html(item);
          }
          var icon = document.createElement('i');
          var button = document.createElement('button');
          if (icons[index]) {
            icon.className = 'fa fa-' + icons[index];
          }
          button.setAttribute('type', 'button');
          button.className = 'widget-toggle-button jupyter-button';
          if (previous_bstyle) {
            button.classList.add(previous_bstyle);
          }
          button.innerHTML = item_html;
          button.setAttribute('data-value', encodeURIComponent(item));
          button.setAttribute('value', index.toString());
          button.appendChild(icon);
          button.disabled = disabled;
          if (tooltips[index]) {
            button.setAttribute('title', tooltips[index]);
          }
        });
      }
    } else {
      this.buttongroup.textContent = '';
      items.forEach(function (item, index) {
        var item_html;
        var empty = item.trim().length === 0;
        if (empty) {
          item_html = ' ';
        } else {
          item_html = utils.escape_html(item);
        }
        var icon = document.createElement('i');
        var button = document.createElement('button');
        if (icons[index]) {
          icon.className = 'fa fa-' + icons[index];
        }
        button.setAttribute('type', 'button');
        button.className = 'widget-toggle-button jupyter-button';
        if (previous_bstyle) {
          button.classList.add(previous_bstyle);
        }
        button.innerHTML = item_html;
        button.setAttribute('data-value', encodeURIComponent(item));
        button.setAttribute('value', index.toString());
        button.appendChild(icon);
        button.disabled = disabled;
        if (tooltips[index]) {
          button.setAttribute('title', tooltips[index]);
        }
      });
    }
  };
});
view.update_style_traits(button); view.buttongroup.appendChild(button);

// Select active button
items.forEach(function (item, index) {
    var item_query = '[data-value="' + encodeURIComponent(item) + '"]';
    var button = view.buttongroup.querySelector(item_query);
    if (view.model.get('index') === index) {
        button.classList.add('mod-active');
    }
    else {
        button.classList.remove('mod-active');
    }
    this.stylePromise.then(function (style) {
        if (style) {
            style.style();
        }
    });
    return super.prototype.update.call(this, options);
});

ToggleButtonsView.prototype.update_button_style = function (button) {
    for (var name_1 in this._css_state) {
        if (this._css_state.hasOwnProperty(name_1)) {
            if (name_1 === 'margin') {
                this.buttongroup.style[name_1] = this._css_state[name_1];
            }
            else if (name_1 !== 'width') {
                if (button) {
                    button.style[name_1] = this._css_state[name_1];
                }
                else {
                    var buttons = this.buttongroup.querySelectorAll('button');
                    if (buttons.length) {
                        buttons[0].style[name_1] = this._css_state[name_1];
                    }
                }
            }
        }
    }
};

ToggleButtonsView.prototype.update_button_style = function () {
    var buttons = this.buttongroup.querySelectorAll('button');
    for (var i = 0; i < buttons.length; i++) {
        this.update_mapped_classes(ToggleButtonsView.classMap, 'button_style', buttons[i]);
    }
};

ToggleButtonsView.prototype.set_button_style = function () {
    var buttons = this.buttongroup.querySelectorAll('button');
    for (var i = 0; i < buttons.length; i++) {
        this.set_mapped_classes(ToggleButtonsView.classMap, 'button_style', buttons[i]);
    }
};

ToggleButtonsView.prototype.events = function () {
    return {'click button': '_handle_click'};
};

/**
 * Handle when a value is clicked.
 *
 * Calling model.set will trigger all of the other views of
 * the model to update.
 */
ToggleButtonsView.prototype._handle_click = function (event) {
    this.model.set('index', parseInt(event.target.value), { updated_view: this });
    this.touch();
    // We also send a clicked event, since the value is only set if it changed.
    // See https://github.com/jupyter-widgets/ipywidgets/issues/763
    this.send({ event: 'click' });
};

exports.ToggleButtonsView = ToggleButtonsView;

var SelectionSliderModel = /** @class */ (function (_super) {
    __extends(SelectionSliderModel, _super);
    function SelectionSliderModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    SelectionSliderModel.prototype.defaults = function () {
        return __assign({}, _super.prototype.defaults.call(this), { _model_name: 'SelectionSliderModel', _view_name: 'SelectionSliderView', orientation: 'horizontal', readout: true, continuous_update: true });
    };
    return SelectionSliderModel;
}(SelectionModel));

exports.SelectionSliderModel = SelectionSliderModel;

var SelectionSliderView = /** @class */ (function (_super) {
    __extends(SelectionSliderView, _super);
    function SelectionSliderView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    SelectionSliderView.prototype.render = function () {
        var _this = this;
        _super.prototype.render.call(this);
        this.el.classList.add('jupyter-widgets');
        this.el.classList.add('widget-inline-hbox');
        this.el.classList.add('widget-hslider');
        this.el.classList.add('widget-slider');
        (this.$slider = $('<div />')).slider({
            slide: this.handleSliderChange.bind(this),
            stop: this.handleSliderChanged.bind(this)
        }).addClass('slider');
        // Put the slider in a container
        this.slider_container = document.createElement('div');
        this.slider_container.classList.add('slider-container');
        this.slider_container.appendChild(this.$slider[0]);
        this.el.classList.add('widget-inline-hbox');
        this.el.classList.add('widget-slider');
        this.$slider = $('(<div />')
        .slider({
            slide: this.handleSliderChange.bind(this),
            stop: this.handleSliderChanged.bind(this)
        });
        this.el.classList.add('widget-inline-hbox');
        this.el.classList.add('widget-slider');
        this.$slider = $('(<div />')
        .slider({
            slide: this.handleSliderChange.bind(this),
            stop: this.handleSliderChanged.bind(this)
        });
        this.slider_container.appendChild(this.$slider[0]);
        this.el.appendChild(this.$slider[0]);
        this.readout = document.createElement('div');
        this.readout.classList.add('widget-readout');
        this.readout.style.display = 'none';
        this.listenTo(this.model, 'change:slider_color', function (sender, value) {
            this.$slider.find(a).css('background', value);
        });

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this.$slider.find('a').css('background',this.model.get('slider_color')); // Set defaults.

/*
 * Update the contents of this view
 * Called when the model is changed. The model may have been
 * changed by another view or by a state update from the back-end.
 */
SelectionSliderView.prototype.update = function (options) {
    if (options === undefined || options.updated_view !== this) {
        var labels = this.model.get('_options_labels');
        var max = labels.length - 1;
        var min = 0;
        this.$slider.slider('option', 'step', 1);
        this.$slider.slider('option', 'max', max);
        this.$slider.slider('option', 'min', min);
        // WORKAROUND FOR JQUERY SLIDER BUG.
        // The horizontal position of the slider handle
        // depends on the value of the slider at the time
        // of orientation change. Before applying the new
        // workaround, we set the value to the minimum to
        // make sure that the horizontal placement of the
        // handle in the vertical slider is always
        // consistent. orientation_1 = this.model.get('orientation');
        this.$slider.slider('option', 'value', min);
        this.$slider.slider('option', 'orientation', orientation_1);
        var disabled = this.model.get('disabled');
        this.$slider.slider('option', 'disabled', disabled);
        if (disabled) {
            this.readout.contentEditable = 'false';
        } else {
            this.readout.contentEditable = 'true';
        }
        // Use the right CSS classes for vertical & horizontal sliders
        if (orientation_1 === 'vertical') {
            this.el.classList.remove('widget-hslider');
            this.el.classList.remove('widget-inline-hbox');
            this.el.classList.add('widget-vslider');
            this.el.classList.add('widget-inline-vbox');
        } else {
            this.el.classList.remove('widget-vslider');
            this.el.classList.remove('widget-inline-vbox');
            this.el.classList.add('widget-hslider');
            this.el.classList.add('widget-inline-hbox');
        }
        var readout = this.model.get('readout');
        if (readout) {
            // this.$readout.show();
            this.readout.style.display = '';
        } else {
            // this.$readout.hide();
            this.readout.style.display = 'none';
        }
        this.updateSelection();
        return _super.prototype.update.call(this, options);
    }
    return _super.prototype.update.call(this, options);
};

SelectionSliderView.prototype.events = function () {
    return {
        'slide': 'handleSliderChange',
        'slidestop': 'handleSliderChanged'
    };
}

SelectionSliderView.prototype.updateSelection = function () {
    var index = this.model.get('index');
    this.$slider.slider('option', 'value', index);
    this.updateReadout(index);
}

SelectionSliderView.prototype.updateReadout = function (index) {
    var value = this.model.get('_options_labels')[index];
    this.readout.textContent = value;
}

/*
 * Called when the slider value is changing.
 */
SelectionSliderView.prototype.handleSliderChange = function (e, ui) {
    this.updateReadout(ui.value);
    // Only persist the value while sliding if the continuous_update
    // trait is set to true
    if (this.model.get('continuous_update')) {
        this.handleSliderChanged(e, ui);
    }
    return _super.prototype.handleSliderChange.call(this, e, ui);
}

/*
 * Called when the slider value has changed.
 * Calling model.set will trigger all of the other views of the
 * model to update.
 */
SelectionSliderView.prototype.handleSliderChanged = function (e, ui) {
    this.updateReadout(ui.value);
    this.model.set('index', ui.value, { updated_view: this });
    this.touch();
    return _super.prototype.handleSliderChanged.call(this, e, ui);
}

exports.SelectionSliderView = SelectionSliderView;

var MultipleSelectionModel = /** @class */ (function (_super) {
    __extends(MultipleSelectionModel, _super);
    function MultipleSelectionModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    MultipleSelectionModel.prototype.defaults = function () {
        return __assign({}, _super.prototype.defaults.call(this), { _model_name: 'MultipleSelectionModel' });
    };
    return MultipleSelectionModel;
}(SelectionModel));

var SelectMultipleModel = /** @class */ (function (_super) {
    __extends(SelectMultipleModel, _super);
    function SelectMultipleModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    SelectMultipleModel.prototype.defaults = function () {
        return __assign({}, _super.prototype.defaults.call(this), { _model_name: 'SelectMultipleModel', _view_name: 'SelectMultipleView', rows: null });
    };
    return SelectMultipleModel;
}(MultipleSelectionModel));

var SelectMultipleView = /** @class */ (function (_super) {
    __extends(SelectMultipleView, _super);
    function SelectMultipleView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    SelectMultipleView.prototype.render = function () {
        var _this = this;
        this.$el.on('change', function (e) {
            var value = _this.$el.val();
            _this.model.set('value', value, { updated_view: _this });
        });
    }
    return SelectMultipleView;
}(SelectionView));

var SelectMultipleModel = SelectMultipleModel;
var SelectMultipleView = SelectMultipleView;
SelectMultipleView.prototype.initialize = function (parameters) {
    super.prototype.initialize.call(this, parameters);
    this.listBox.multiple = true;
   }
   /**
    * Called when view is rendered.
    */
    SelectMultipleView.prototype.render = function () {
        super.prototype.render.call(this);
        this.el.classList.add('widget-select-multiple');
    };
    /**
     * Called when
     */
    SelectMultipleView.prototype.updateSelection = function (options) {
        if (options === void 0) { options = {};
        }
        if (options.updated_view !== this) {
            return;
        }
        var selected = this.model.get('index');
        var listboxOptions = this.listBox.options;
        // Clear the selection
        this.listBox.selectedIndex = -1;
        // Select the appropriate options
        selected.forEach(function (i) {
            listboxOptions[i].selected = true;
        });
        // Handle when a new value is selected.
        this.model.set('index', [ selected ], { updated_view: this });
        this.touch();
    };
    /**
     * Handle when a new value is selected.
     */
    SelectMultipleView.prototype._handle_change = function () {
        var index = Array.prototype.map.call(this.listBox.selectedOptions || [], function (option) {
            return option.index;
        });
        this.model.set('index', index, { updated_view: this });
        this.touch();
    };
    return SelectMultipleView;
}(SelectView));
exports.SelectMultipleView = SelectMultipleView;
var SelectionRangeSliderModel = /** @class */ (function (_super) {
    __extends(SelectionRangeSliderModel, _super);
    function SelectionRangeSliderModel() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    SelectionRangeSliderModel.prototype.defaults = function () {
        return __assign({},
            _super.prototype.defaults.call(this), { _model_name: 'SelectionSliderModel', _view_name: 'SelectionSliderView', orientation: 'horizontal', readout: true, continuous_update: true });
    };
    return
SelectionRangeSliderModel;
}(MultipleSelectionModel));
exports.SelectionRangeSliderModel = SelectionRangeSliderModel;
var SelectionRangeSliderView = /** @class */ (function (_super) {
    __extends(SelectionRangeSliderView, _super);
    function SelectionRangeSliderView() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    SelectionRangeSliderView.prototype.render = function () {
        super.prototype.render.call(this);
        this.$slider.slider('option', 'range', true);
    };
    SelectionRangeSliderView.prototype.updateSelection = function () {
        var index = this.model.get('index');
        this.$slider.slider('option', 'values', index.slice());
        this.updateReadout(index);
    };
    SelectionRangeSliderView.prototype.updateReadout = function (index) {
        var labels = this.model.get('_options_labels');
        var minValue = labels[index[0]];
        var maxValue = labels[index[1]];
        this.readout.textContent = minValue + "-" + maxValue;
    };
    SelectionRangeSliderView.prototype.handleSliderChange = function (e, ui) {
        this.updateReadout(ui.values);
        this.model.set('index', ui.values.slice(), { updated_view: this });
        this.touch();
    };
    return SelectionRangeSliderView;
}(SelectionSliderView));
exports.SelectionRangeSliderView = SelectionRangeSliderView;


//////////////////
// WEBPACK FOOTER
// module id = 358
// module chunks = 0";"use strict";
// Copyright
(c) Jupyter Development Team.
"use strict";
Copyright
(c) Jupyter Development Team. Distributed under the terms of the Modified BSD License.
var __extends = (this && this.__extends) || (function () {
    var extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };)
    return function (d, b) {
        extendStatics(d, b); 
        function __() {
            this.constructor = d; 
        }
        return (b && b.__extends && (this.__extends = b.__extends || (function () {
            function __() {
                this.constructor = d;
            }
            d.prototype = b === null ? Object.create(b) : (function (p, b) {
                this._proto = b; 
                var __ = new (typeof p === 'function' && p.call)().Object;
                __.prototype = b.prototype;
            })(p, b);
        })), (this._proto = d.prototype = b === null ? Object.create(b) : (function (p, b) {
            this._proto = b; 
            var __ = new (typeof p === 'function' && p.call)().Object;
            __.defineProperty(exports, "__proto__", { value: true });
        })())
    }

    exports.__extends = __extends;
    return function (d, b) {
        extendStatics(d, b);
        function __() {
            this.constructor = d;
        }
        return (b && b.__extends && (this.__extends = b.__extends || (function () {
            function __() {
                this.constructor = d;
            }
            d.prototype = b === null ? Object.create(b) : (function (p, b) {
                this._proto = b; 
                var __ = new (typeof p === 'function' && p.call)().Object;
                __.defineProperty(exports, "__proto__", { value: true });
            })()());
            __.prototype = b === null ? Object.create(b) : (function (p, b) {
                this._proto = b; 
                var __ = new (typeof p === 'function' && p.call)().Object;
                __.defineProperty(exports, "__proto__", { value: true });
            })()());
        );
    })(this)
    (this)
widgets/base.js); var widget_box_1 = require('~/widget_box.js'); var tabpanel_1 = require('~/phosphor/tabpanel.js'); var accordion_1 = require('~/phosphor/accordion.js'); var widgets_1 = require('@phosphor/widgets.js'); var algorithm_1 = require('@phosphor/algorithm.js'); var messaging_1 = require('@phosphor/messaging.js'); var _ = require('underscore.js'); var utils = require('./utils.js'); var $ = require('jquery.js'); var SelectionContainerModel = /** @class */ (function (_super) {
  __extends(SelectionContainerModel, _super);
  function SelectionContainerModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  SelectionContainerModel.prototype.defaults = function () {
    return _.extend(_super.prototype.defaults.call(this), {
      selected_index: 0,
      _titles: {}
    });
  };
  return SelectionContainerModel;
}(Widgets.BoxModel));
exports.SelectionContainerModel = SelectionContainerModel;
var AccordionModel = /** @class */ (function (_super) {
  __extends(AccordionModel, _super);
  function AccordionModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  AccordionModel.prototype.defaults = function () {
    return _.extend(AccordionModel.prototype.defaults.call(this), {
      _model_name: 'AccordionModel',
      _view_name: 'AccordionView'
    });
  };
  return AccordionModel;
}(SelectionContainerModel));

// We implement our own tab widget since phosphor's TabPanel uses an absolute
// positioning BoxLayout, but we want a more an html/css-based panel layout.
var JupyterPhosphorAccordionWidget = /** @class */ (function (_super) {
  __extends(JupyterPhosphorAccordionWidget, _super);
  function JupyterPhosphorAccordionWidget(options) {
    var _this = this;
    var view = options.view;
    delete options.view;
    _this = _super.call(this, options) || this;
    _this._view = view;
    return _this;
  }
  JupyterPhosphorAccordionWidget.prototype.processMessage = function (msg) {
    _super.prototype.processMessage.call(this, msg);
    this._view.processPhosphorMessage(msg);
  };
  JupyterPhosphorAccordionWidget.prototype.dispose = function () {
    if (this.isDisposed) {
      return;
    }
    _super.prototype.dispose.call(this);
    if (this._view) {
      this._view.remove();
    }
    this._view = null;
  };
  return JupyterPhosphorAccordionWidget;
}(AccordionModel));
exports.JupyterPhosphorAccordionWidget = JupyterPhosphorAccordionWidget;
var AccordionView = /** @class */ (function (_super) {
  __extends(AccordionView, _super);
  function AccordionView() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  AccordionView.prototype._createElement = function (tagName) {
    this.pWidget = new JupyterPhosphorAccordionWidget({ view: this });
    return this.pWidget.node;
  };
  AccordionView.prototype._setElement = function (el) {
    if (this.el || el !== this.pWidget.node) {
      // Accordions don't allow setting the element beyond the initial creation.
      throw new Error('Cannot reset the DOM element.');
    }
    this.el = this.pWidget.node;
    this.$el = $(this.pWidget.node);
  };
  AccordionView.prototype.initialize = function (parameters) {
    var _this = this;
    _super.prototype.initialize.call(this, parameters);
    this.children_views = new base_1.ViewList(this.add_child_view, this.remove_child_view, this);
    this.listenTo(this.model, 'change:children', function () {
      return _this.updateChildren();
    });
    this.listenTo(this.model, 'change:selected_index', function () {
      return _this.update_selected_index();
    });
    this.listenTo(this.model, 'change:_titles', function () {
      return _this.update_titles();
    });
    this.children_views.update(this.model.get('children'));
    this.update_titles();
  };
  AccordionView.prototype.render = function () {
    var this_1 = this;
    var view = options.view;
    delete options.view;
    this._this = super.call(this, options);
    this._view = view;
    return this._this;
  };
  return AccordionView;
}(AccordionModel));
this.update_selected_index();

/**
 * Update children
 */
AccordionView.prototype.updateChildren = function () {
    // While we are updating, the index may not be valid, so deselect the tabs before updating so we don't get spurious changes in the index, which would then set off another sync cycle.
    this.updatingChildren = true;
    this.pWidget.selection.index = null;
    this.children_views.update(this.model.get('children'));
    this.update_selected_index();
    this.updatingChildren = false;
}

/**
 * Update children
 */
AccordionView.prototype.updateChildren = function () {
    // While we are updating, the index may not be valid, so deselect the tabs before updating so we don't get spurious changes in the index, which would then set off another sync cycle.
    this.updatingChildren = true;
    this.pWidget.selection.index = null;
    this.children_views.update(this.model.get('children'));
    this.update_selected_index();
    this.updatingChildren = false;
}

/**
 * Set header titles
 */
AccordionView.prototype.update_titles = function () {
    var collapsed = this.pWidget.collapseWidgets;
    var titles = this.model.get('_titles');
    for (var i = 0; i < collapsed.length; i++) {
        if (titles[i] !== void 0) {
            collapsed[i].widget.title.label = titles[i];
        }
    }
}

/**
 * Make the rendering and selected index consistent.
 */
AccordionView.prototype.update_selected_index = function () {
    this.pWidget.selection.index = this.model.get('selected_index');
}

/**
 * Remove child view
 */
AccordionView.prototype.remove_child_view = function (view) {
    this.pWidget.removeWidget(view.pWidget);
    view.remove();
}

/**
 * Add child view
 */
AccordionView.prototype.add_child_view = function (model, index) {
    // Placeholder widget to keep our position in the tab panel while we create the view.
    var accordion = this.pWidget;
    var placeholder = new widgets_1.Widget();
    placeholder.title.label = this.model.get('_titles')[index] || '';
    accordion.addWidget(placeholder);
    return this.create_child_view(model).then(function (view) {
        var widget = view.pWidget;
        widget.title.label = placeholder.title.label;
        var collapse = accordion.collapseWidgets[accordion.indexOf(placeholder)];
        collapse.widget = widget;
        placeholder.dispose();
        return view;
    }).catch(utils.reject('Could not add child view to box', true));
}

/**
 * Remove
 */
AccordionView.prototype.remove = function () {
    this.children_views = null;
    _super.prototype.remove.call(this);
}

return AccordionView;
}(base_1.DOMWidgetView));
exports.AccordionView = AccordionView;

var TabModel = /** @class */ (function (_super) {
    __extends(TabModel, _super);
    function TabModel() {
        return _super
            !== null && _super.apply(this, arguments) || this;
    }
    TabModel.prototype.defaults = function () {
        return _.extend(_super.prototype.defaults.call(this), {
            _model_name: 'TabModel',
            _view_name: 'TabView'
        });
    };
    return TabModel;
}(SelectionContainerModel));
exports.TabModel = TabModel;

// We implement our own tab widget since Phosphor's TabPanel uses an absolute positioning BoxLayout, but we want a more an html/css-based Panel layout.
var JupyterPhosphorTabPanelWidget = /** @class */ (function (_super) {
    __extends(JupyterPhosphorTabPanelWidget, _super);
    function JupyterPhosphorTabPanelWidget(options) {
        var _this = this;
        var view = options.view;
        delete options.view;
        _this = _super.call(this, options) || this;
        _this._view = view;
        // We want the view's messages to be the messages the tabContents panel gets.
        messaging_1.MessageLoop.installMessageHook(_this.tabContents, function (handler, msg) {
            // There may be times when we want the view's handler to be called after the message has been processed by the widget, in which case we'll need to revisit using a message hook.
            _this._view.processPhosphorMessage(msg);
            return true;
        });
        return _this;
    }
    /**
     * Dispose the widget.
     */
    JupyterPhosphorTabPanelWidget.prototype.dispose = function () {
        if (this.isDisposed) {
            return;
        }
        _super.prototype.dispose.call(this);
        if (this._view) {
            this._view.remove();
        }
        this._view = null;
    };
    return JupyterPhosphorTabPanelWidget;
}(tabpanel_1.TabPanel));
exports.JupyterPhosphorTabPanelWidget = JupyterPhosphorTabPanelWidget;

var TabView = /** @class */ (function (_super) {
    __extends(TabView, _super);
    function TabView() {
        var _this = _super !== null && _super.apply(this, arguments) || this;
        _this.updatingTabs = false;
        return _this;
    }
    TabView.prototype._createElement = function (tagName) {
        this.pWidget = new JupyterPhosphorTabPanelWidget({
            view: this,
        });
        return this.pWidget.node;
    };
    TabView.prototype._setElement = function (el) {
        if (this.el || el !==

Open Source Used In Secure Workload 3.6.1.1 20476
this.pWidget.node) { // TabViews don't allow setting the element beyond the initial creation.
  throw new Error('Cannot reset the DOM element.');
}| this.el = this.pWidget.node;| this.$el = $(this.pWidget.node);| /
 /**
 * Public constructor.
 *
 * TabView.prototype.initialize = function (parameters) { var _this = this; this._super.prototype.initialize.call(this, parameters);
 this.childrenViews = new base_1.ViewList(this.addChildView, function (view) { view.remove(); }, this); this.listenTo(this.model, 'change:children', function () { return this.updateTabs(); }); this.listenTo(this.model, 'change:titles', function () { return this.updateTitles(); }); }
 */
 *
 * Called when view is rendered.
 *
 * TabView.prototype.render = function () { this._super.prototype.render.call(this); var tabs = this.pWidget;
 tabs.addClass('jupyter-widgets');
 tabs.addClass('widget-container');
 tabs.addClass('widget-tab');
 tabs.tabsMovable = true;
 tabs.tabBar.insertBehavior = 'none'; // needed for insert behavior, see below.
 tabs.tabBar.currentChanged.connect(this.onTabChanged, this);

 tabs.tabBar.tabMoved.connect(this.onTabMoved, this);
 tabs.tabBar.addClass('widget-tab-bar');

 tabs.tabContents.addClass('widget-tab-contents');

 // TODO: expose this option in python
 tabs.tabBar.tabsMovable = false;
 this.updateTabs();
 this.update();

 /*
 * Render tab views based on the current model's children.
 *
 * TabView.prototype.updateTabs = function () { // While we are updating, the index may not be valid, so deselect the
 // tabs before updating so we don't get spurious changes in the index. // which would then set off another sync cycle.
 this.pWidget.currentIndex = null;
 this.childrenViews.update(this.model.get('children'));
 this.pWidget.currentIndex = this.model.get('selected_index');
 this.updateSelectedIndex();
*/

 /*
 * Placeholder widget to keep our position in the tab panel while we create the view.
 var label = this.model.get('_titles')[index];
 var tabs = this.pWidget;
 var placeholder = new widgets_1.Widget();
 placeholder.title.label = label;
 tabs.addWidget(placeholder);
 this.create_child_view(model).then(function (view) {

 var widget = view.pWidget;
 widget.title.label = placeholder.title.label;
 widget.title.closable = false;
 var i = algorithm_1.ArrayExt.firstIndexOf(tabs.widgets, placeholder);
 // insert after placeholder so that if
 placeholer is selected, the
 // real widget will be selected now (this depends on the tab bar
 // insert behavior)
 tabs.insertWidget(i + 1, widget);

 placeholder.dispose();
 return view;
 });.

 /*
 * Update the contents of this view
 *
 * TabView.prototype.updateContents = function () { // Update the selected index in the overall update method because it'
 // should be run after the tabs have been updated. Otherwise the
 // selected index may not be a valid tab in the tab bar.
 this.updateSelectedIndex();
 return super.prototype.update.call(this);
 */

 /*
 * Updates the selected index.
 */
 TabView.prototype.updateSelectedIndex = function () {
 this.pWidget.currentIndex = this.model.get('selected_index');

 /*
 * Update the selected index.
 *
 * TabView.prototype.updateSelectedIndex = function () { 

 /*
 * Handle the `tabMoved` signal from the tab bar.
 *
 * TabView.prototype._onTabMoved = function (sender, args) { 

 /*
 * Handle the `onTabMoved` signal from the tab bar.
 */

 /*
 * Handle the `onTabChanged` signal from the tab bar.
 */

 /*
 * Handle the `touch` signal from the tab bar.
 */

 /*
 * Handle the `onTabMoved` signal from the tab bar.
 */

 /*
 * Handle the `onTabChanged` signal from the tab bar.
 */

 /*
 * Handle the `touch` signal from the tab bar.
 */

 // WEBPACK FOOTER
// module id = 359
// module chunks = 0, ""use strict"; /* This file has code derived from PhosphorJS. The license for this PhosphorJS code is: */

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*/

var __extends = (this && this.__extends) || (function () {
    var extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
    return function (d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };
})();

Object.defineProperty(exports, "__esModule", { value: true });

var messaging_1 = require("@phosphor/messaging");

var signaling_1 = require("@phosphor/signaling");

var domutils_1 = require("@phosphor/domutils");

var widgets_1 = require("@phosphor/widgets");

/**
 * A panel where visible widgets are stacked atop one another.
 *
 * #### Notes
 * This class provides a convenience wrapper around a `PanelLayout`.
 */

var EventedPanel = /** @class */ (function (_super) {
    __extends(EventedPanel, _super);
    function EventedPanel() {
        var _this = _super !== null && _super.apply(this, arguments) || this;
        _this._widgetRemoved = new signaling_1.Signal(_this);
        return _this;
    }
    Object.defineProperty(EventedPanel.prototype, "widgetRemoved", {
        /**
         * A signal emitted when a widget is removed from the panel.
         */
        get: function () {
            return this._widgetRemoved;
        },
        enumerable: true,
        configurable: true
    });
    EventedPanel.prototype.onChildRemoved = function (msg) {
        this._widgetRemoved.emit(msg.child);
    };
    return EventedPanel;
}(widgets_1.Panel));

exports.EventedPanel = EventedPanel;

/**
 * A widget which combines a `TabBar` and an `EventedPanel`.
 *
 * #### Notes
 * This is a simple panel which handles the common case of a tab bar
 * placed next to a content area. The selected tab controls the widget
 * which is shown in the content area.
 *
 * For use cases which require more control than is provided by this panel, the `TabBar`
 * widget may be used independently.
 *
 * TODO: Support setting the direction??
 */

var TabPanel = /** @class */ (function (_super) {
    __extends(TabPanel, _super);
    function TabPanel(options) {
        if (options === void 0) { options = {}; }
        var _this = _super.call(this) || this;
        _this._currentChanged = new signaling_1.Signal(_this);
        _this.addClass('p-TabPanel');
        // Create the tab bar and contents panel.
        _this.tabBar = new widgets_1.TabBar(options);
        _this.tabBar.addClass('p-TabPanel-tabBar');
        _this.tabContents = new EventedPanel();
        _this.tabContents.addClass('p-TabPanel-tabContents');
        // Connect the tab bar signal handlers.
        _this.tabBar.tabMoved.connect(_this.onTabMoved, _this);
        _this.tabBar.tabCloseRequested.connect(_this.onTabCloseRequested, _this);
        _this.tabBar.tabActivateRequested.connect(_this.onTabActivateRequested, _this);
        // Connect the evented panel signal handlers.
        _this.tabContents.widgetRemoved.connect(_this.onWidgetRemoved, _this);
        // Create the layout.
        var layout = new widgets_1.PanelLayout();
        // Add the child widgets to the layout.
        _this.tabBar.addClass('p-TabBar');
        _this.tabContents.addClass('p-TabPanel-tabContents');
        // Connect the tab bar signal handlers.
        _this.tabBar.tabMoved.connect(_this.onTabMoved, _this);
        _this.tabBar.tabCloseRequested.connect(_this.onTabCloseRequested, _this);
        _this.tabBar.tabActivateRequested.connect(_this.onTabActivateRequested, _this);
        // Connect the evented panel signal handlers.
        _this.tabContents.widgetRemoved.connect(_this.onWidgetRemoved, _this);
        // Create the layout.
        var layout = new widgets_1.PanelLayout();
        // Add the child widgets to the layout.
        _this.tabBar.addClass('p-TabBar');
        _this.tabContents.addClass('p-TabPanel-tabContents');
        // Connect the tab bar signal handlers.
        _this.tabBar.tabMoved.connect(_this.onTabMoved, _this);
        _this.tabBar.tabCloseRequested.connect(_this.onTabCloseRequested, _this);
        _this.tabBar.tabActivateRequested.connect(_this.onTabActivateRequested, _this);
        // Connect the evented panel signal handlers.
        _this.tabContents.widgetRemoved.connect(_this.onWidgetRemoved, _this);
        // Create the layout.
        var layout = new widgets_1.PanelLayout();
        // Add the child widgets to the layout.
        _this.tabBar.addClass('p-TabBar');
        _this.tabContents.addClass('p-TabPanel-tabContents');
        // Connect the tab bar signal handlers.
        _this.tabBar.tabMoved.connect(_this.onTabMoved, _this);
        _this.tabBar.tabCloseRequested.connect(_this.onTabCloseRequested, _this);
        _this.tabBar.tabActivateRequested.connect(_this.onTabActivateRequested, _this);
        // Connect the evented panel signal handlers.
        _this.tabContents.widgetRemoved.connect(_this.onWidgetRemoved, _this);
        // Create the layout.
        var layout = new widgets_1.PanelLayout();
        // Add the child widgets to the layout.
        _this.tabBar.addClass('p-TabBar');
        _this.tabContents.addClass('p-TabPanel-tabContents');
        // Connect the tab bar signal handlers.
        _this.tabBar.tabMoved.connect(_this.onTabMoved, _this);
        _this.tabBar.tabCloseRequested.connect(_this.onTabCloseRequested, _this);
        _this.tabBar.tabActivateRequested.connect(_this.onTabActivateRequested, _this);
        // Connect the evented panel signal handlers.
        _this.tabContents.widgetRemoved.connect(_this.onWidgetRemoved, _this);
        // Create the layout.
        var layout = new widgets_1.PanelLayout();
        // Add the child widgets to the layout.
TabPanel.prototype._onTabActivateRequested = function (sender, args) {
args.title.owner.activate();
};
/**
 * Handle the `tabCloseRequested` signal from the tab bar.
 */
TabPanel.prototype._onTabCloseRequested = function (sender, args) {
    args.title.owner.close();
};
/**
 * Handle the `tabMoved` signal from the tab bar.
 */
TabPanel.prototype._onTabMoved = function (sender, args) {
    this.tabContents.insertWidget(args.toIndex, args.title.owner);
};
/**
 * Handle the `widgetRemoved` signal from the stacked panel.
 */
TabPanel.prototype._onWidgetRemoved = function (sender, widget) {
    this.tabBar.removeTab(widget.title);
};

TabPanel.exports.TabPanel = TabPanel;


///////////////////////
// WEBPACK FOOTER
//../packages/controls/lib/phosphor/tabpanel.js
// module id = 360
// module chunks = 0
";"use strict";"/
Copyright (c) Jupyter Development Team."/ Distributed under the terms of the Modified BSD License."\n
var COLLAPSE_CLASS = 'p-Collapse';
var COLLAPSE_HEADER_CLASS = 'p-Collapse-header';
var COLLAPSE_CONTENTS_CLASS = 'p-Collapse-contents';
var COLLAPSE_CLASS_OPEN = 'p-Collapse-open';

class Collapse {
    constructor(options) {
        this._collapseChanged = new signaling.Signal(this);
        this.addClass(COLLAPSE_CLASS);
        this._header = new widgets.Widget();
        this._header.addClass(COLLAPSE_HEADER_CLASS);
        this._header.node.addEventListener('click', this);
        this._content = new widgets.Panel();
        this._content.addClass(COLLAPSE_CONTENTS_CLASS);
        var layout = new widgets.PanelLayout();
        this.layout = layout;
        layout.addWidget(this._header);
        layout.addWidget(this._content);
        if (options.widget) {
            this.widget = options.widget;
        }
        this.collapsed = false;
    }
    dispose() {
        if (this.isDisposed) {
            return;
        }
        super.dispose();
        this._header = null;
        this._widget = null;
        this._content = null;
    }
    get widget() {
        return this._widget;
    }
    set widget(value) {
        if (value !== this._widget) {
            this._widget = value;
            this._onTitleChanged(value.title);
        }
        this._content.addWidget(value);
    }
    get collapsed() {
        return this._collapsed;
    }
    set collapsed(value) {
        // TODO: should we have this check here?
        if (value === this._collapsed) {
            return;
        }
        if (value) {
            this._collapse();
        } else {
            this._uncollapse();
        }
    }
    toggle() {
        this.collapsed = !this.collapsed;
    }
    get collapseChanged() {
        return this._collapseChanged;
    }
    _collapse() {
        this._collapsed = true;
        if (this._content) {
            this._content.hide();
        }
        this.removeClass(COLLAPSE_CLASS_OPEN);
    }
    _uncollapse() {
        this._collapsed = false;
        this._content.show();
        this.addClass(COLLAPSE_CLASS_OPEN);
    }
    _onTitleChanged(title) {
        this.widget.disposed.disconnect(this._onChildDisposed, this);
        this.widget.title.changed.disconnect(this._onTitleChanged, this);
        this.widget.title = title;
        this.widget.disposed.connect(this._onChildDisposed, this);
        this.widget.title.changed.connect(this._onTitleChanged, this);
        this.widget = title;
        this.title.changed.disconnect(this._onTitleChanged, this);
        this.title.changed.connect(this._onTitleChanged, this);
        this.widget = title;
    }
}
this._collapseChanged.emit(void 0); 
} 
Collapse.prototype._uncollapse = function () { 
    this._collapsed = false; 
    if (this._content) { 
        this._content.show(); 
    } 
} 
this.addClass(COLLAPSE_CLASS_OPEN); 
this._collapseChanged.emit(void 0); 
/** 
 * Handle the DOM events for the Collapse widget. 
 */ 
@param {Event} event - The DOM event sent to the panel. 

* **** Notes
 * This method implements the DOM `EventListener` interface and is
 * called in response to events on the panel's DOM node. It should
 * not be called directly by user code. 
/
 */ 
Collapse.prototype.handleEvent = function (event) { 
    switch (event.type) { 
        case 'click': 
            this._evtClick(event); 
            break; 
        default: 
            break; 
    } 
} 
Collapse.prototype._evtClick = function (event) { 
    this.toggle(); 
} 

/** 
 * Handle the `change` signal of a title object. 
 */ 
Collapse.prototype._onTitleChanged = function (sender) { 
    this._header.node.textContent = this._widget.title.label; 
} 
Collapse.prototype._onChildDisposed = function (sender) { 
    this.dispose(); 
} 

return Collapse;
}(widgets._Widget));

exports.Collapse = Collapse; 

/** 
 * The class name added to Accordion instances. 
 */ 
var ACCORDION_CLASS = 'p-Accordion'; 
/** 
 * The class name added to an Accordion child. 
 */ 
var ACCORDION_CHILD_CLASS = 'p-Accordion-child'; 
var ACCORDION_CHILD_ACTIVE_CLASS = 'p-Accordion-child-active'; 

/** 
 * A panel that supports a collapsible header, made from the widget's title. 
 * Clicking on the title expands or contracts the widget. 
 */ 
var Accordion = /** @class */ (function (_super) { 
    __extends(Accordion, _super); 
    function Accordion(options) { 
        var _this = _super.call(this, options) || this; 
        _this._selection = new currentselection._Selection(_this.widgets); 
        _this._selection.selectionChanged.connect(_this._onSelectionChanged, _this); 
        _this.addClass(ACCORDION_CLASS); 
        return _this; 
    } 
    Object.defineProperty(Accordion.prototype, "collapseWidgets", { 
        /** 
         * A read-only sequence of the widgets in the panel. 
         */ 
        get: function () { 
            return this.layout.widgets; 
        }, 
        enumerable: true, 
        configurable: true 
    }); 
    Object.defineProperty(Accordion.prototype, "selection", { 
        get: function () { 
            return _this._selection; 
        }, 
        enumerable: true, 
        configurable: true 
    }); 
    Accordion.prototype.indexOf = function (widget) { 
        return algorithm._ArrayExt.findIndex(this.collapseWidgets, function (w) { return w.widget === widget; }); 
    } 
    Accordion.prototype.addWidget = function (widget) { 
        var collapse = this._wrapWidget(widget); 
        collapse.collapsed = true; 
        _super.prototype.addWidget.call(this, collapse); 
        this._selection.adjustSelectionForInsert(this.widgets.length - 1, collapse); 
        return collapse; 
    } 
    Accordion.prototype.insertWidget = function (index, widget) { 
        var collapse = this._wrapWidget(widget); 
        collapse.collapsed = true; 
        _super.prototype.insertWidget.call(this, index, collapse); 
        this._selection.adjustSelectionForInsert(index, collapse); 
    } 
    Accordion.prototype.removeWidget = function (widget) { 
        var index = this.indexOf(widget); 
        if (index >= 0) { 
            var collapse = this.collapseWidgets[index]; 
            widget.parent = null; 
            collapse.dispose(); 
            this._selection.adjustSelectionForRemove(index, null); 
        } 
    } 
    Accordion.prototype._wrapWidget = function (widget) { 
        var collapse = this._wrapWidget(widget); 
        collapse.collapsed = true; 
        _super.prototype.insertWidget.call(this, index, collapse); 
    } 
    Accordion.prototype._onSelectionChanged = function (sender, 
    this._selectionChanged.connect(this._onSelectionChanged, this); 
    this._addClass(ACCORDION_CLASS); 
    return this._this; 
} 
Object.prototype.addProperty(Accordion.prototype, "collapseWidgets", { 
    /** 
     * A read-only sequence of the widgets in the panel. 
     */ 
    get: function () { 
        return new ArraySequence(toArray(map((this.layout as PanelLayout).widgets, (w: Collapse) => w.widget))); 
    }, 
    enumerable: true, 
    configurable: true 
} 
Object.prototype.addProperty(Accordion.prototype, "selection", { 
    get: function () { 
        return this._selection; 
    }, 
    enumerable: true, 
    configurable: true 
} 
var Accordion.prototype.indexOf = function (widget) { 
    return algorithm._ArrayExt.findIndex(this.collapseWidgets, function (w) { return w.widget === widget; }); 
} 
var Accordion.prototype.addWidget = function (widget) { 
    var collapse = this._wrapWidget(widget); 
    collapse.collapsed = true; 
    _super.prototype.addWidget.call(this, collapse); 
} 
var Accordion.prototype.insertWidget = function (index, widget) { 
    var collapse = this._wrapWidget(widget); 
    collapse.collapsed = true; 
    _super.prototype.insertWidget.call(this, index, collapse); 
} 
var Accordion.prototype.removeWidget = function (widget) { 
    var index = this.indexOf(widget); 
    if (index >= 0) { 
        var collapse = this.collapseWidgets[index]; 
        widget.parent = null; 
        collapse.dispose(); 
        this._selection.adjustSelectionForRemove(index, null); 
    } 
} 
var Accordion.prototype._wrapWidget = function (widget) { 
    var collapse = this._wrapWidget(widget); 
    collapse.collapsed = true; 
    _super.prototype.insertWidget.call(this, index, collapse); 
} 
var Accordion.prototype._onSelectionChanged = function (sender, 
    this._selectionChanged.connect(this._onSelectionChanged, this); 
    this._addClass(ACCORDION_CLASS); 
    return this._this; 
} 

window.addEventListener('load', function () { 
    var accordion = new Accordion({ 
        title: 'My Accordion', 
        widgets: [ 
            new Collapse({ 
                widget: new Widget({ 
                    title: 'Widget 1', 
                    content: 'This is a widget.' 
                }) 
            }), 
            new Collapse({ 
                widget: new Widget({ 
                    title: 'Widget 2', 
                    content: 'This is another widget.' 
                }) 
            }) 
        ] 
    }); 
    accordion.render(); 
}, false); 

// Access the accordion's widgets and selection. 

var widgets = accordion.collapseWidgets; 
var selectedWidget = accordion.selection; 

// Expand or contract the selected widget. 

selectedWidget.toggle(); 

// Get the index of a widget. 

var index = accordion.indexOf(widget); 

// Insert a widget at a specific index. 

accordion.insertWidget(index, widget); 

// Remove a widget from the accordion. 

accordion.removeWidget(widget);
Selection.prototype.adjustSelectionForMove = function (i, j) {
    if (i === j) {
        this._index++;  // Increase the index for a self-move operation.
    } else if (i > j) {
        this._index--;  // Decrease the index for a reverse move operation.
    } else if (this._index > i && this._index < j) {
        return;  // If the index is between the move, nothing changes.
    } else if (this._index < i) {
        this._index = i;  // Move to the new lower index.
    } else if (this._index > j) {
        this._index = j;  // Move to the new higher index.
    }
    // Emit the current changed signal.
    this._selectionChanged.emit({
        previousIndex: i, previousValue: item
    });
}

Selection.prototype.adjustSelectionForInsert = function (i, item) {
    // Set the selection behavior when inserting a tab.
    this._insertBehavior = value;
    // Set the selection behavior when removing a tab.
    this._removeBehavior = value;
    // Get the selection behavior when inserting a tab.
    this._insertBehavior = value;
    // Get the selection behavior when removing a tab.
    this._removeBehavior = value;
    // Adjust the current index for a tab insert operation.
    this._index = Math.min(i, this._array.length - 1);
    this._updateSelectedValue();
    this._previousValue = null;

    // Get the current index and item.
    var pi = this._index;
    var pv = this._value;
    // Reset the current index and previous item.
    this._index = null;
    this._value = null;
    this._previousValue = null;

    // Get the current index and previous item.
    var ci = this._index;
    var cv = this._value;
    // Handle the behavior where the new item is always selected.
    if (this._insertBehavior === 'select-item') {
        this._index = i;
        this._value = item;
        this._previousValue = cv;
    } else if (this._insertBehavior === 'select-item-if-needed') {
        if (ci === i) {
            this._index = j;
        } else if (ci < i && this._index < j) {
            this._index++;
        } else if (ci > i && this._index > j) {
            this._index--;
        } else if (ci >= i) {
            this._index++;
        } else if (ci < i && this._index > j) {
            this._index--;
        } else if (ci > i && this._index < j) {
            this._index++;
        } else if (ci === i) {
            this._index = j;
        } else if (ci < i && this._index < j) {
            this._index++;
        } else if (ci > i && this._index > j) {
            this._index--;
        } else if (ci >= i) {
            this._index++;
        } else if (ci < i) {
            this._index--;
        } else if (ci > i) {
            this._index++;
        } else if (ci === i) {
            this._index = j;
        } else if (ci < i) {
            this._index--;
        } else if (ci > i) {
            this._index++;
        }
    } else if (this._insertBehavior === 'select-item-after') {
        this._index = Math.min(i, this._array.length - 1);
    } else if (this._insertBehavior === 'select-item-before') {
        this._index = Math.max(0, i - 1);
    }

    // Check if the vector needs to be updated.
    if (this._array.length === 0) {
        // Reset the current index.
        this._index = null;
        this._value = null;
        this._previousValue = null;

        // Emit the current changed signal.
        this._selectionChanged.emit({
            previousIndex: i, previousValue: item
        });
    }

    // Handle behavior where the next sibling item is selected.
    if (this._index === i) {
        this._index = i;
    } else if (this._index < i && this._index > j) {
        this._index = i;
    } else if (this._index > i && this._index < j) {
        this._index = i;
    }

    // Emit the current changed signal.
    this._selectionChanged.emit({
        previousIndex: i, previousValue: item
    });
    // Handle behavior where the previous history item is selected.
    if (this._previousValue !== null) {
        this._previousValue = null;
        this._previousIndex = null;
        // Emit the current changed signal.
        this._selectionChanged.emit({
            previousIndex: i, previousValue: item
        });
    }

    // Emit the current changed signal.
    this._selectionChanged.emit({
        previousIndex: i, previousValue: item
    });
}

Open Source Used In Secure Workload 3.6.1.1 20483
```javascript
(function () {
    return Selection;
}());

exports.Selection = Selection;

```
this.content.classList.add('widget-htmlmath-content');
this.el.appendChild(this.content);
this.update();  // Set defaults.

/**
 * Update the contents of this view
 */
HTMLMathView.prototype.update = function () {
  this.content.innerHTML = this.model.get('value');
  this.typeset(this.content);
  return _super.prototype.update.call(this);
};

exports.HTMLMathView = HTMLMathView;

var LabelModel = /** @class */ (function (_super) {
  __extends(LabelModel, _super);
  function LabelModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  LabelModel.prototype.defaults = function () {
    return {
      _view_name: 'LabelView',
      _model_name: 'LabelModel',
      rows: null,
      continuous_update: true
    };
  };
  return LabelModel;
}(StringModel));

exports.LabelModel = LabelModel;

var LabelView = /** @class */ (function (_super) {
  __extends(LabelView, _super);
  function LabelView() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  LabelView.prototype.render = function () {
    this.el.classList.add('jupyter-widgets');
    this.el.classList.add('widget-label');
    this.update();  // Set defaults.
  };
  /**
   * Update the contents of this view
   *
   * Called when view is rendered.
   */
  LabelView.prototype.update = function () {
    this.typeset(this.el, this.model.get('value'));
    return _super.prototype.update.call(this);
  };
  return LabelView;
}(widget_description_1.DescriptionView));

exports.LabelView = LabelView;

var TextareaModel = /** @class */ (function (_super) {
  __extends(TextareaModel, _super);
  function TextareaModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  TextareaModel.prototype.defaults = function () {
    return {
      _view_name: 'TextareaView',
      _model_name: 'TextareaModel',
      rows: null,
      continuous_update: true
    };
  };
  return TextareaModel;
}(StringModel));

exports.TextareaModel = TextareaModel;

var TextareaView = /** @class */ (function (_super) {
  __extends(TextareaView, _super);
  function TextareaView() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  /**
   * Called when view is rendered.
   */
  TextareaView.prototype.render = function () {
    this.el.classList.add('jupyter-widgets');
    this.el.classList.add('widget-inline-hbox');
    this.el.classList.add('widget-textarea');
    this.textbox = document.createElement('textarea');
    this.textbox.setAttribute('rows', '5');
    this.textbox.id = this.label.htmlFor = utils_1.uuid();
    this.el.appendChild(this.textbox);
    this.update();  // Set defaults.
    this.listenTo(this.model, 'change:placeholder', function (model, value, options) {
      this.update_placeholder(value);
    });
    this.update_placeholder();
  };
  TextareaView.prototype.update_placeholder = function (value) {
    value = value || this.model.get('placeholder');
    this.textbox.setAttribute('placeholder', value.toString());
  };
  /**
   * Triggered on input change
   */
  TextareaView.prototype.update = function (options) {
    if (options === undefined || options.updated_view != this) {
      this.textbox.value = this.model.get('value');
      var rows = this.model.get('rows');
      if (rows === null) {
        rows = '';
      }
      this.textbox.setAttribute('rows', rows);
      this.textbox.disabled = this.model.get('disabled');
      return _super.prototype.update.call(this);
    }
  };
  TextareaView.prototype.events = function () {
    return {
      'keydown input': 'handleKeyDown',
      'keypress input': 'handleKeypress',
      'input textarea': 'handleChanging',
      'change textarea':
    };
  };
  /**
   * Handle key down
   */
  TextareaView.prototype.handleKeyDown = function (e) {
    e.stopPropagation();
  };
  /**
   * Handles key press
   */
  TextareaView.prototype.handleKeypress = function (e) {
    e.stopPropagation();
  };
  /**
   * Triggered on input change
   */
  TextareaView.prototype.handleChanging = function (e) {
    if (this.model.get('continuous_update')) {
      this.handleChanged(e);
    }
  };
  /**
   * Sync the value
   */
  TextareaView.prototype.typeset = function () {
  };
});

exports.TextareaView = TextareaView;
with the kernel.

```javascript
TextareaView.prototype.handleChanged = function (e) {
    this.model.set('value', e.target.value, { updated_view: this });
    this.touch();
};
return TextareaView;
} // exports.TextareaView = TextareaView;

var TextModel = /** @class */ (function (_super) {
  __extends(TextModel, _super);
  function TextModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  TextModel.prototype.defaults = function () {
    return _super.extend_super.prototype.defaults.call(this), { _view_name: 'TextareaView', _model_name: 'TextModel', _continuous_update: true, _super: this });
};
exports.TextModel = TextModel;

var Textview = /** @class */ (function (_super) {
  __extends(Textview, _super);
  function Textview() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  Textview.prototype.defaults = function () {
    return _super.extend_super.prototype.defaults.call(this), { _view_name: 'TextView', _model_name: 'TextView', _continuous_update: true, _super: this });
};
exports.TextView = Textview;

var PasswordModel = /** @class */ (function (_super) {
  __extends(PasswordModel, _super);
  function PasswordModel() {
    return _super !== null && _super.apply(this, arguments) || this;
  }
  PasswordModel.prototype.defaults = function () {
    return _super.extend_super.prototype.defaults.call(this), { _view_name: 'PasswordView', _model_name: 'PasswordModel', _super: this });
};
exports.PasswordModel = PasswordModel;
```

---

**Open Source Used In Secure Workload 3.6.1.1**

20486
loader: Adds some css to the DOM by adding a <style> tag

```javascript
// load the styles
var content = require("!!../../node_modules/css-loader/index.js!../../node_modules/postcss-loader/lib/index.js??ref--0-2!/widget_output.css");
if(typeof content === 'string') content = [[module.id, content, '']];

// Prepare cssTransformation
var transform = transform || addStyles;

// add the styles to the DOM
var update = require("!../../node_modules/style-loader/addStyles.js")(content, locals);

// Prepare cssTransformation
var transform = transform || addStyles;

// add the styles to the DOM
var update = require("!../../node_modules/style-loader/addStyles.js")(content, locals);
```

When the styles change, update the <style>

```
module.hot.accept("!/.../node_modules/css-loader/index.js!.../node_modules/postcss-loader/lib/index.js??ref--0-2!/widget_output.css", function() {
  var newContent = require("!/.../node_modules/css-loader/index.js!.../node_modules/postcss-loader/lib/index.js??ref--0-2!/widget_output.css");
  // update module.exports
  module.exports(newContent); // update module.exports
});
```

When the module is disposed, remove the <style>

```
module.exports.push("/*\n * Copyright (c) Jupyter Development Team. Distributed under the terms of the Modified BSD License. */\n
\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n```

When source maps are enabled, `style-loader` uses a link element with a data-uri to embed the css on the page. This breaks all relative urls because they are relative to the main bundle instead of the current page. One solution is to only use full urls, but that may be impossible. Instead, this function `fixUrls` the relative urls to be absolute according to the current page location.

```
module.exports.push("/*\n * Copyright (c) Jupyter Development Team. Distributed under the terms of the Modified BSD License. */\n
\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n```

When the styles change, update the <style>

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\n```

When the styles change, update the <style>

```
module.exports.push("/*\n * Copyright (c) Jupyter Development Team. Distributed under the terms of the Modified BSD License. */\n
\n```

When the module is disposed, remove the <style>
```
// Prepare css Transformation

var transform = require('css-loader!postcss-loader')

var content = {
  transform: transform
}

// add the styles to the DOM

var update = require('addStyles')

if(content.locals) { content = content.locals }

// When the styles change, update the <style>

var updateContent = require('css-loader!postcss-loader')

if(content.locals) { content = content.locals }

// Hot Module Replacement

module.hot.accept('widgets.css', function() {
  module.exports = updateContent
})

module.exports = updateContent
```

---

Open Source Used In Secure Workload 3.6.1.1

---

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---

The following CSS variables define the main, public API for styling JupyterLab. These variables should be used by all plugins wherever possible. In other words, plugins should not define custom colors, sizes, etc unless absolutely unnecessary. This enables users to change the visual theme of JupyterLab by changing these variables. Many variables appear in an ordered sequence (0,1,2,3). These sequences are designed to work well together, so for example, `-jp-border-color1` should be used with `-jp-layout-color1`. The numbers have the following meanings:

- **0**: super-primary, reserved for special emphasis
- **1**: primary, most important under normal situations
- **2**: secondary, next most important under normal situations
- **3**: tertiary, next most important under normal situations

Throughout JupyterLab, we are mostly following principles from Google's Material Design when selecting colors. We are not, however, following all of MD as it is not optimized for dense, information rich UIs. Optional monospace font for input/output prompt. @import
Interactive HTML Widgets
========================

Interactive HTML widgets for Jupyter notebooks.

Usage
=====

Install the corresponding package for your kernel. i.e. Python users would also install `ipywidgets`. Refer to that package's documentation for usage instructions.

Keywords: Interactive, Interpreter, Shell, Web
Platform: Linux
Platform: Mac OS X
Platform: Windows
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Science/Research
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Framework :: Jupyter

Found in path(s):
* /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-3.1.0/widgetsnbextension.egg-info/PKG-INFO
* /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-3.1.0/PKG-INFO

No license file was found, but licenses were detected in source scan.

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Found in path(s):
  * /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-3.1.0/src/save_state.js
  * /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-3.1.0/src/widget_output.js
  * /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-3.1.0/src/embed_widgets.js
  * /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-3.1.0/src/extension.js
  * /opt/cola/permits/1156186466_1619141485.84/0/widgetsnbextension-3-1-0-tar-gz/widgetsnbextension-3.1.0/src/manager.js

1.1550 grizzly-framework 1.9.8

1.1550.1 Available under license:

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1.1551 icu 50.1.2 15.el7

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2009, International Business Machines Corporation and others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%:.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%:.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%:.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \ |
| sed "s/[^\(\^\*\)\s\[\]a@\s\[\]o\[ ]*:g\"\n| -s $@ ] \ | rm -f $@"
%:.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \ |
| sed "s/[^\(\^\*\)\s\[\]a@\s\[\]o\[ ]*:g\"\n| -s $@ ] \ | rm -f $@"

## Versioned libraries rules
%.$(SO):$(SO_TARGET_VERSION_MAJOR): %.$(SO):$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $(<F) $@
%.$(SO): %.$(SO):$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $(<F).$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup
1.1552 zlib 1.2.5

1.1552.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

*/

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1.1553 xlsxwriter 0.9.2

1.1553.1 Available under license:

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1.1554 aead 0.2

1.1554.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1156166956_1619138624.28/0/aead-0-2-tar-gz/aead-0.2/aead/__init__.py
* /opt/cola/permits/1156166956_1619138624.28/0/aead-0-2-tar-gz/aead-0.2/setup.py
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Metadata-Version: 1.1
Name: aead
Version: 0.2
Summary: An authenticated encryption implementation.
Home-page: https://github.com/Ayrx/python-aead
Author: Terry Chia
Author-email: terrycwk1994@gmail.com
License: BSD or Apache License, Version 2.0
Description: UNKNOWN
Platform: UNKNOWN
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Apache Software License
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: POSIX
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Security :: Cryptography

Found in path(s):
* /opt/cola/permits/1156166956_1619138624.28/0/aead-0-2-tar-gz/aead-0.2/PKG-INFO
* /opt/cola/permits/1156166956_1619138624.28/0/aead-0-2-tar-gz/aead-0.2/aead.egg-info/PKG-INFO

1.1555 shadow-utils 4.6 5.el7
1.1555.1 Available under license:

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Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of the Licenses, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

13.4. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for
material breach.

13.5. Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6. Payment and Taxes
If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7. Force Majeure
Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8. Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:
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Suite 1020
Santa Clara, CA 95054
U.S.A.
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13.9. Export Control
Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10. Governing Law and Legal Venue
This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes arising out of or relating to this Agreement shall be resolved in arbitration under the Rules of Arbitration of the Chamber of Commerce of Helsinki, Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

13.11. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Digia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/or Modified Software and/or Applications, as applicable, with any other software or hardware not delivered by Digia under this Agreement.

A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

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/* * Parts of this software have been adapted from the libpng package. * */
/* * Although this library supports all features from the PNG specification * */
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/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
/* */
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QT EMBEDDED DEVELOPER LICENSE AGREEMENT
Agreement version 1.5.2

This Embedded Developer License Agreement for Qt ("Agreement") is a legal agreement between Digia Finland Ltd ("Digia"), with its registered office at Valimotie 21, FI-00380 Helsinki, Finland and you (either an individual or a legal entity) ("Licensee") for the Licensed Software (as defined below).

1. DEFINITIONS
"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.
"Applications" shall mean Licensee's software products created using the Licensed Software which may include portions of the Licensed Software.
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"Development Platforms" shall mean the operating system(s) listed in the License Certificate on which Licensee may use, develop and modify the Licensed Software.
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5.3 Further Requirements
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The aforementioned shall not prohibit Licensee from using Licensed Software for the purpose of creating of applications for any devices, including mobile phone and tablet computers. Notwithstanding anything contrary to this Agreement, it is expressly acknowledged and understood by Licensee, that Nokia shall hereby be named as a third party beneficiary under this Agreement with respect to this Section 5.3. Therefore, Nokia shall have the same rights as Digia under this Agreement with respect to this Section 5.3, and shall be entitled to exercise such rights independent from Digia. The licenses granted in this Section 5 by Digia to Licensee and Licensee Affiliates are subject to Licensee and Licensee Affiliate's compliance with Section 8 of this Agreement.

6. VERIFICATION
Digia or a certified auditor on Digia's behalf, may, upon its reasonable request and at its expense, audit Licensee with respect to the use of the Licensed Software. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. Digia will not remove, copy, or redistribute any electronic material during the course of an audit. If an audit reveals that Licensee is using the Licensed Software in a way that is in material violation of the terms of the Agreement, then Licensee shall pay Digia's reasonable costs of conducting the audit. In the case of a material violation, Licensee agrees to pay Digia any amounts owing that are attributable to the unauthorized use. In the alternative, Digia reserves the right, at Digia's sole option, to terminate the licenses for the Licensed Software.

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Applications may not compete with the Licensed Software; (ix) Licensee may not use Digia's or any of its suppliers' names, logos, or trademarks to market Applications, except to state that Licensee's Application was developed using the Licensed Software.

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10. LIMITATION OF LIABILITY

If, Digia's warranty disclaimer notwithstanding, Digia is held to be liable to Licensee whether in contract, tort, or any other legal theory, based on the Licensed Software, Digia's entire liability to Licensee and Licensee's exclusive remedy shall be, at Digia's option, either (a) return of the price Licensee paid for the Licensed Software, or (b) repair or replacement of the Licensed Software, provided Licensee returns to Digia all copies of the Licensed Software as originally delivered to Licensee. Digia shall not under any circumstances be liable to Licensee based on failure of the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Digia, under any circumstances, be liable for special damages, punitive or exemplary damages, damages for loss of profits or interruption of business or for loss or corruption of data. Any award of damages from Digia to Licensee shall not exceed the total amount Licensee has paid to Digia in connection with this Agreement.

11. SUPPORT AND UPDATES

Licensee will be eligible to receive Support and Updates during the Initial Term, in accordance with Digia's then current policies and procedures, if any. Such policies and procedures may be changed from time to time. Following the Initial Term, Digia shall no longer make the Licensed Software available to Licensee unless Licensee purchases additional Support and Updates according to this Section 11 below. Licensee may purchase additional Support and Updates following the Initial Term at Digia's terms and conditions applicable at the time of renewal.

12. CONFIDENTIALITY

Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the
value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS
13.1. Marketing
Digia may include Licensee's company name and logo in a publicly available list of Digia customers and in its public communications.

13.2. No Assignment
Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. Digia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

13.3. Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of the Licenses, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

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of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for material breach.

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13.8. Notices
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13.10. Governing Law and Legal Venue:
This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of the Central Chamber of Commerce of Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

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"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other
entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

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Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its Affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party,
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"Confidential Information” shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

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Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld.

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Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, and 9.8 of this Agreement.

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This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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(1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in
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"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

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  - The Licensed Software's documentation
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- The Licensed Software's Meta Object Compiler ("moc")
- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")
- The Licensed Software's Resource Compiler ("rcc")
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- The Licensed Software's Qt SDK

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Copyright FAQ
==============

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

   You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

   Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

   Sure. Bundle the fonts with your software and sell your software
with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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2006-Jan-27

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If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7 Force Majeure
Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8 Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:
Digia Finland Ltd
Attn: Qt / Legal
Valimotie 21
FI-00380 Helsinki
Finland
Fax: +358 10 313 3700

13.9 Export Control
Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10 Governing Law and Legal Venue
This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be shall be finally settled by arbitration in accordance with the Arbitration Rules.
of the Central Chamber of Commerce of Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

13.11 No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Digia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/or Modified Software, as applicable, with any other software or hardware not delivered by Digia under this Agreement.

Appendix 1

1. Parts of the Licensed Software that are permitted for distribution ("Redistributables"):  
- The Licensed Software's main and plug-in libraries in object code form  
- The Licensed Software's configuration tool ("qconfig")  
- The Licensed Software's help tool in object code/executable form ("Qt Assistant")  
- The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")  
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- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")  
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- The Licensed Software's Qt SDK and its components

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Agreement version 3.9.2

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11. SUPPORT AND UPDATES
Licensee shall be eligible to receive Support and Updates during the Initial Term, in accordance with Digia's then current policies and procedures, if any. Such policies and procedures may be changed from time to time. Following the Initial Term, Digia shall no longer make the Licensed Software available to Licensee unless Licensee purchases additional Support and Updates according to this Section 11 below. Licensee may purchase additional Support and Updates following the Initial Term at Digia's terms and conditions applicable at the time of renewal.

12. CONFIDENTIALITY
Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information").
Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

13.1 Marketing
Digia may include Licensee's company name and logo in a publicly available list of Digia customers and in its public communications.

13.2 No Assignment
Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. Digia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

13.3 Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of this Agreement, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

13.4 Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the
following Sections: 2, 5.1, 6, 7, 8(iv), 10, 12, 13.5, 13.6, 13.9, 13.10 and 13.11 of this Agreement. Notwithstanding
the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

13.5 Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or
contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters
discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this
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shall be effective unless contained in a writing executed by an authorized representative of each party. No term or
condition contained in Licensee’s purchase order shall apply unless expressly accepted by Digia in writing. If any
provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable
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liability and exclusions of damages set forth in this Agreement shall remain in effect.

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imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments
made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish
evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including
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13.7 Force Majeure
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with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force
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Version 2.1, February 1999

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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```c
printf("%s",png_get_copyright(NULL));
```

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glennrp at users.sourceforge.net
March 26, 2015

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
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    under the terms of Sections 1 and 2 above provided that you accompany
    it with the complete corresponding machine-readable source code, which
    must be distributed under the terms of Sections 1 and 2 above on a
    medium customarily used for software interchange.

    If distribution of object code is made by offering access to copy
    from a designated place, then offering equivalent access to copy the
    source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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    When a "work that uses the Library" uses material from a header file
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6. As an exception to the Sections above, you may also compile or
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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1.1563 x-sys 0.0.0-20210908233432-aa78b53d3365

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1.1565 procps 3.2.8 36.el6

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1.1566 perl-time-hires 1.9725 3.el7

1.1567 grizzly-framework 2.4.4
1.1567.1 Available under license:

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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```
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@c ispell-local-pdict: "ispell-dict"
@c End:
```

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### 1.1613 redis-actionpack 5.2.0

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1620 python-pycparser 2.14 1.el7

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This is a list of people who have contributed to pycparser by supplying patches, opening issues, or generally helping out, before the project moved to Github.

For more recent contributions, check out the "Contributors" page of the pycparser Github project.

The list is sorted in increasing alphabetic order by first name.

* Andreas Klckner
* Andrew de los Reyes
* Benoit Pradelle
* Dov Feldstern
* Even Wiik Thomassen
* Greg Smith
* Jaroslav Franek
* Li Xuan Ji
* Mateusz Czaplinski
* Paolo Di Maio
* Rory Yorke
* Rubin
* Scott Tsai
* Sye van der Veen
* Thomas W. Barr
* Tomer Segal
* Weyllor

1.1621 libjpeg-turbo 1.2.90 8.el7

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The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.
OVERVIEW

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing “real-world” scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF)
Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1622 jline 2.12

1.1623 zstd 1.3.7
1.1623.1 Available under license:

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Metadata-Version: 1.1
Name: PyWavelets
Version: 0.5.2
Summary: PyWavelets, wavelet transform module
Home-page: https://github.com/PyWavelets/pywt
Author: The PyWavelets Developers
Author-email: http://groups.google.com/group/pywavelets
License: MIT
Download-URL: https://github.com/PyWavelets/pywt/releases
Description: PyWavelets is a Python wavelet transforms module that includes:

* nD Forward and Inverse Discrete Wavelet Transform (DWT and IDWT)
* 1D and 2D Forward and Inverse Stationary Wavelet Transform (Undecimated Wavelet Transform)
* 1D and 2D Wavelet Packet decomposition and reconstruction
* 1D Continuous Wavelet Transform
* Computing Approximations of wavelet and scaling functions
* Over 100 built-in wavelet filters and support for custom wavelets
* Single and double precision calculations
* Results compatibility with Matlab Wavelet Toolbox (tm)

Keywords: wavelets,wavelet transform,DWT,SWT,CWT,scientific
Platform: Windows
Platform: Linux
Platform: Solaris
Platform: Mac OS-X
Platform: Unix
Classifier: Development Status :: 5 - Production/Stable
PyWavelets
==========

.. contents::

What is PyWavelets
-----------------

PyWavelets is a free Open Source library for wavelet transforms in Python. Wavelets are mathematical basis functions that are localized in both time and frequency. Wavelet transforms are time-frequency transforms employing wavelets. They are similar to Fourier transforms, the difference being that Fourier transforms are localized only in frequency instead of in time and frequency.

The main features of PyWavelets are:

* 1D, 2D and nD Forward and Inverse Discrete Wavelet Transform (DWT and IDWT)
* 1D and 2D Stationary Wavelet Transform (Undecimated Wavelet Transform)
* 1D and 2D Wavelet Packet decomposition and reconstruction
* Approximating wavelet and scaling functions
* Over seventy `built-in wavelet filters`_
  and custom wavelets supported
* Single and double precision calculations
* Results compatible with Matlab Wavelet Toolbox (TM)
Documentation
-------------

Documentation with detailed examples and links to more resources is available online at http://pywavelets.readthedocs.org.

For more usage examples see the `demo`_ directory in the source package.

Installation
------------

PyWavelets supports `Python`_ 2.6, 2.7 or >=3.3, and is only dependent on `Numpy`_ (supported versions are currently `">= 1.9"`). To pass all of the tests, `Matplotlib`_ is also required.

Binaries for Windows and OS X (wheels) on PyPi are in the works, however currently PyWavelets has to be installed from source. To do so, a working C compiler (any common one will work) and a recent version of `Cython`_ is required.

Binary packages for several Linux distributions can be found, but may be out of date. Query your Linux package manager tool for `python-pywavelets`, `python-wavelets`, `python-pywt` or a similar package name.

- Install PyWavelets with `"pip install PyWavelets"`.

- To build and install from source, navigate to the PyWavelets source code directory and type `"python setup.py install"`.

The most recent *development* version can be found on GitHub at https://github.com/PyWavelets/pywt.

The latest release, including source and binary packages for Windows, is available for download from the `Python Package Index`_ or on the `Releases Page`_.

State of development & Contributing
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PyWavelets started in 2006 as an academic project for a master thesis on `Analysis and Classification of Medical Signals using Wavelet Transforms` and was maintained until 2012 by its `original developer`_. In 2013 maintenance was taken over in a `new repo <https://github.com/PyWavelets/pywt>`_ by a larger development team - a move supported by the original developer. The repo move doesn't mean that this is a fork - the package continues to be developed under the name "PyWavelets", and released on PyPi and Github (see `this issue <https://github.com/nigma/pywt/issues/13>`_ for the discussion.
where that was decided).

All contributions including bug reports, bug fixes, new feature implementations and documentation improvements are welcome. Moreover, developers with an interest in PyWavelets are very welcome to join the development team!

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-------

Use `GitHub Issues`_ or the `mailing list`_ to post your comments or questions.

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.. _built-in wavelet filters: http://wavelets.pybytes.com/
.. _Cython: http://cython.org/
.. _demo: https://github.com/PyWavelets/pywt/tree/master/demo
.. _GitHub: https://github.com/PyWavelets/pywt
.. _GitHub Issues: https://github.com/PyWavelets/pywt/issues
.. _Numpy: http://www.numpy.org
.. _original developer: http://en.ig.ma
.. _Python: http://python.org/
.. _Python Package Index: http://pypi.python.org/pypi/PyWavelets/
.. _mailing list: http://groups.google.com/group/pywavelets
.. _Releases Page: https://github.com/PyWavelets/pywt/releases
.. _Matplotlib: http://matplotlib.org

Found in path(s):
* /opt/cola/permits/1156186374_1619141895.09/0/pywavelets-0-5-2-tar-gz/PyWavelets-0.5.2/README.rst
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Found in path(s):
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PyWavelets - Wavelet Transforms in Python
=========================================

PyWavelets is free and Open Source wavelet transform software for the Python_ programming language. It combines a simple high level interface with low level C and Cython performance.

PyWavelets is very easy to use and get started with. Just install the package, open the Python interactive shell and type:

.. sourcecode:: python

    >>> import pywt
    >>> cA, cD = pywt.dwt([1, 2, 3, 4], 'db1')

Voil ! Computing wavelet transforms has never been so simple :)

Main features
-------------

The main features of PyWavelets are:

* 1D, 2D and nD Forward and Inverse Discrete Wavelet Transform (DWT and IDWT)
* 1D, 2D and nD Multilevel DWT and IDWT
* 1D and 2D Stationary Wavelet Transform (Undecimated Wavelet Transform)
* 1D and 2D Wavelet Packet decomposition and reconstruction
* 1D Continuous Wavelet Transform
* Approximating wavelet and scaling functions
* Over seventy `built-in wavelet filters`_ and custom wavelets supported
* Single and double precision calculations
* Real and complex calculations
* Results compatible with Matlab Wavelet Toolbox (TM)

Requirements
------------

PyWavelets is a package for the Python programming language. It requires:

- Python_ 2.6, 2.7 or >=3.3
- Numpy \( \geq 1.9.1 \)

Download
--------

The most recent *development* version can be found on GitHub at https://github.com/PyWavelets/pywt.

Latest release, including source and binary package for Windows, is available for download from the `Python Package Index` or on the `Releases Page`.

Install
-------

In order to build PyWavelets from source, a working C compiler (GCC or MSVC) and a recent version of Cython is required.

- Install PyWavelets with `\`pip install PyWavelets\`.`

- To build and install from source, navigate to downloaded PyWavelets source code directory and type `\`python setup.py install\`.`

Prebuilt Windows binaries and source code packages are also available from `Python Package Index`.

Binary packages for several Linux distributors are maintained by Open Source community contributors. Query your Linux package manager tool for `python-pywavelets`, `python-wavelets`, `python-pywt` or similar package name.

.. seealso:: :ref:`Development notes <dev-index>` section contains more information on building and installing from source code.

Documentation
-------------

Documentation with detailed examples and links to more resources is available online at http://pywavelets.readthedocs.org.

For more usage examples see the `demo` directory in the source package.

State of development & Contributing
------------------------------------

PyWavelets started in 2006 as an academic project for a masters thesis on `Analysis and Classification of Medical Signals using Wavelet Transforms` and was maintained until 2012 by its `original developer`. In 2013 maintenance was taken over in a `new repo <https://github.com/PyWavelets/pywt>` by a larger development team - a move supported by the original developer.
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where that was decided).

All contributions including bug reports, bug fixes, new feature implementations
and documentation improvements are welcome. Moreover, developers with an
interest in PyWavelets are very welcome to join the development team!

Python 3
-------

Python 3.x is fully supported from release v0.3.0 on.

Contact
-------

Use `GitHub Issues`_ or the `PyWavelets discussions group`_ to post your
comments or questions.

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-------

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.. _Cython: http://cython.org/
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.. _Numpy: http://www.numpy.org
.. _original developer: http://en.ig.ma
.. _Python: http://python.org/
.. _Python Package Index: http://pypi.python.org/pypi/PyWavelets/
1.1627 pip 9.0.1

1.1627.1 Available under license :

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1.1628 jackson-xc 2.8.4

1.1628.1 Available under license :

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

### 1.1629 jetty-http 9.4.20.v20190813

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1631 python-cryptography 1.7.2 2.el7

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1.1632 libsgutils 1.37-12.el7

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1.1639 go-rootcerts 1.0.1

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1.1640 jetty-util 9.2.15.v20160210

1.1641 jackson 2.9.6
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1.1642 python-iptables 0.11.0-1.tet

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1.1646 urllib3 1.22
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)
* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRShBZDHBFxQ6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofoi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions
* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.
* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
  * Don't retry on timeout if method not in whitelist.

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package.

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring.

* [Your name or handle] <[email or website]>  
  * [Brief summary of your changes]

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.6.3  2.6.2  2009  PSF  yes
2.6.4  2.6.3  2009  PSF  yes
2.6.5  2.6.4  2010  PSF  yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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That's all there is to it!  
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

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for his work on calculating and checking the crc's for the
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for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <smkruisky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * */
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* 
* M. Welsh, 6 July 1996
* 
* */
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QLogic Linux Networking HBA Driver

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The End

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/util/package.html
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/lz4/package.html
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/net/jpountz/xxhash/package.html
* /opt/ws_local/PERMITS_SQL/1052991750_1592021889.28/0/lz4-java-1-7-0-sources-jar/overview.html

1.1666 audit 2.8.4 4.el7
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regex.h -- regular expression definitions for lsof

This header file is used only when the dialect has no POSIX-conformant
regular expression function set. When that is the case, the dialect's
machine.h will define USE_LIB_REGEX.

When the dialect has a POSIX-conformant regular expression function set,
USE_LIB_REGEX is not defined and this header file #include's <regex.h>.

V. Abell <abe@purdue.edu>
Purdue University

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 */

/* Definitions for data structures and routines for the regular
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---------------------------------------------------------------------------

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.1670 libxxf86vm 1.1.3 2.1.el7

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyle, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Buo-ren, Lin
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Fontenelle, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frederic
- Hein, Jochen
- Hufthammer, Karl Ove
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
- Kelemen, Gbor
- Keeici, Mehmet
- Koir, Klemen
- Kozlov, Yuri
- Kramer, Jakob
- Krznar, Tomislav
- Marchal, Frederic
- Margeviius, Algimantas
- Maryanov, Pavel
1.1672 grep 2.20 2.el7

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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* 
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1.1678 tar 1.23 11.el6
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/EmptyImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/ImmutableMapEntrySet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/CollectPreconditions.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/escape/Escaper.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/HashBasedTable.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/reflect/Reflection.java
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* 
* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
*/

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jar/jersey/repackaged/com/google/common/base/FunctionalEquivalence.java
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/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
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jar/jersey/repackaged/com/google/common/base/SmallCharMatcher.java
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jar/jersey/repackaged/com/google/common/collct/ImmutableSortedAsList.java
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jar/jersey/repackaged/com/google/common/util/concurrent/ListenerCallQueue.java
*/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/GenericMapMaker.java
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/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/math/MathPreconditions.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/html/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/AsyncSettableFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/ByteSink.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ BinaryTreeTraverser.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/CharSource.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/CharSink.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ BinaryTreeTraverser.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/CharSource.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableList.java
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $(STATICCPPFLAGS) -o $(STATICCFLAGS) -o @ $<
```
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \\
| sed \"s/\$\(^\s\)\([^\s\n]\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\[^t\] > $< \\
| -s $< ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \\
| sed \"s/\$\(^\s\)\([^\s\n]\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n]*\)\([^\s\n\.]\)\([^\s\n\.]\)\([^\s\n\.]\)\[^t\] > $< \\
| -s $< ] || rm -f $@

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION_MAJOR) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library `s`
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.1704 go-autorest-validation 0.1.0

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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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1.1714 x-sync 0.0.0-20201207232520-09787c993a3a
1.1714.1 Available under license :

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1.1715 rb-readline 0.5.5
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1.1716 perl 6.55-144.el6
1.1716.1 Available under license :

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.'
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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The End

#!/perl

=head1 NAME

copyright.t
Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all("Not all files are available during cross-compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
"
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "
;     my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
  or die "Year not found in README copyright message $copyright_msg";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output $output";

  $year;
}

1.1717 openssh 7.5-p1
1.1717.1 Available under license :

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- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
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== Contributors

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1.1725 netty-handler 4.1.35.Final
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* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/ocsp/package-info.java
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* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/Java9SslEngine.java
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* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/SslSessionContext.java
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* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
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* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2.jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java

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* /opt/ws_local/PERMITS_SQL/1075319509_1596106859.86/0/netty-handler-4-1-35-final-sources-2-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

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* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/builder/DifferenceEngineConfigurer.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/diff/ComparisonFormatter.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/builder/DiffBuilder.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/builder/JaxbBuilder.java

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* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/diff/DefaultConditionalSelectorBuilder.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/util/Predicate.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/validation/Languages.java
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* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/validation/ConfigurationException.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/transform/package-info.java
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* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/validation/ParsingValidator.java
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* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/XMLUnitException.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/input/CommentLessSource.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/util/Mapper.java
* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/org/xmlunit/diff/ByNameAndTextRecSelector.java

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* /opt/cola/permits/1138242170_1614277467.51/0/xmlunit-core-2-6-2-sources-1-jar/META-INF/maven/org.xmlunit/xmlunit-core/pom.xml

1.1727 ttfunk 1.7.0

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```
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```

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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uses the Library", as object code and/or source code, so that the
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1.1731 swagger-annotations 1.5.10
1.1731.1 Available under license :

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";

1.1732 traceroute 2.0.14 2.el6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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</head>

<body>

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<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
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1.1741 python-dateutil 2.5.3

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pietr
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Fagon, Ariel
Farrell, Brian
Fobes, Steve
Frysin, Mike G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhanl, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keecci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krzmar, Tomislav
Marchal, Frédric
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
1.1746 coreutils 8.22 18.el7

1.1746.1 Available under license:

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John R. Hauser
2018 January 20

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 *      @(#)mman.h      8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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 * @(#)mman.h 8.2 (Berkeley) 1/9/95 */

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */
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 *
 * @(#)mman.h   8.1 (Berkeley) 6/2/93
 */

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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/*      $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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*
* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1    /* Operation not permitted */
#define TARGET_ENOENT 2    /* No such file or directory */
#define TARGET_ESRCH 3     /* No such process */
#define TARGET_EINTR 4     /* Interrupted system call */
#define TARGET_EIO 5       /* Input/output error */
#define TARGET_ENXIO 6     /* Device not configured */
#define TARGET_E2BIG 7     /* Argument list too long */
#define TARGET_ENOEXEC 8   /* Exec format error */
#define TARGET_EBADF 9     /* Bad file descriptor */
#define TARGET_ECHILD 10   /* No child processes */
#define TARGET_EDeadlk 11  /* Resource deadlock avoided */
        /* 11 was EAGAIN */
#define TARGET_ENOMEM 12  /* Cannot allocate memory */
#define TARGET_EACCES 13   /* Permission denied */
#define TARGET_EFAULT 14   /* Bad address */
#define TARGET_ENOTBLK 15   /* Block device required */
#define TARGET_EBUSY 16   /* Device busy */
#define TARGET_EEXIST 17   /* File exists */
#define TARGET_EXDEV 18   /* Cross-device link */
#define TARGET_ENODEV 19   /* Operation not supported by device */
#define TARGET_ENOTDIR 20   /* Not a directory */
#define TARGET_EISDIR 21   /* Is a directory */
#define TARGETEINVAL 22   /* Invalid argument */
#define TARGET_ENFILE 23   /* Too many open files in system */
#define TARGET_EMFILE 24   /* Too many open files */
#define TARGET_ENOTTY 25   /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26   /* Text file busy */
#define TARGET_EFBIG 27   /* File too large */
#define TARGET_ENOSPC 28   /* No space left on device */
#define TARGET_ESPIPE 29   /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ENOTUNREACH 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGETENAME_TOO_LONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
define TARGET_EUSERS 68 /* Too many users */
define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
define TARGET_ESTALE 70 /* Stale NFS file handle */
define TARGET_EREMOTE 71 /* Too many levels of remote in path */
define TARGET_EBADRPC 72 /* RPC struct is bad */
define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
define TARGET_EPROGMISMATCH 75 /* Program version wrong */
define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
define TARGET_ENOLCK 77 /* No locks available */
define TARGET_ENOSYS 78 /* Function not implemented */
define TARGET_EFTYPE 79 /* Inappropriate file type or format */
define TARGET_EAUTH 80 /* Authentication error */
define TARGET_ENEEDAUTH 81 /* Need authenticator */
define TARGET_EIPSEC 82 /* IPsec processing failure */
define TARGET_ENOATTR 83 /* Attribute not found */
define TARGET_EILSEQ 84 /* Illegal byte sequence */
define TARGET_ENOMEDIUM 85 /* No medium found */
define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
define TARGET_EOVERFLOW 87 /* Conversion overflow */
define TARGET_ECANCELED 88 /* Operation canceled */
define TARGET_EIDRM 89 /* Identifier removed */
define TARGET_ENOMSG 90 /* No message of desired type */
define TARGET_ELAST 90 /* Must be equal largest errno */

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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

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# *
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# * IBM Corporation - initial implementation
# *****************************************************************************/
ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDLFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I./include/x86emu \ 
    -I$(TOP)/clients/net-snkap/include -I$(ROOTDIR)/include \ 
    -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
    -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
    $(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
    $(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

    libx86emu.a: $(X86EMU_OBJS)
    $(AR) -rc $@ $(X86EMU_OBJS)
    $(RANLIB) $@

clean:
    $(RM) *.o *.i *.s libx86emu.a

distclean: clean

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
 * System call numbers.
 *
 * created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */
*/

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_syn 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_getpgrp 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigaction 48
#define TARGET_OPENBSD_NR_sigprocmask 49
#define TARGET_OPENBSD_NR_getlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigmreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___syscall 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msqget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR__shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR__semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgrctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */
/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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/* */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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John R. Hauser
2018 January 20

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ARM contributions    llvm/lib/Target/ARM/LICENSE.TXT
md5 contributions    llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */
/*
* System call numbers.
*  
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
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#define TARGET_NETBSD_NR_break       17
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#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getuid 47
#define TARGET_NETBSD_NR_getgid 48
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 49
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
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#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
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#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_getkerninfo 63
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#define TARGET_NETBSD_NR_setpgid 82
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#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
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#define TARGET_NETBSD_NR_compat_43_orecv 102
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#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
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#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
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#define TARGET_NETBSD_NR_compat_09 ouname 164
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#define TARGET_NETBSD_NR_compat_10 osemsys 169
#define TARGET_NETBSD_NR_compat_10 omsgsys 170
#define TARGET_NETBSD_NR_compat_10 oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30 ntp_gettime 175
#define TARGET_NETBSD_NR_nftp_adjtime 176
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#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
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#define TARGET_NETBSD_NR_lfs_markv 185
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#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12 fstat12 189
#define TARGET_NETBSD_NR_compat_12 lstat12 190
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#define TARGET_NETBSD_NR_fpathconf 192
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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit     1
#define TARGET_FREEBSD_NR_fork     2
#define TARGET_FREEBSD_NR_read     3
#define TARGET_FREEBSD_NR_write    4
#define TARGET_FREEBSD_NR_open     5
#define TARGET_FREEBSD_NR_close    6
#define TARGET_FREEBSD_NR_wait4    7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link     9
#define TARGET_FREEBSD_NR_unlink   10
/* 11 is obsolete exec */
#define TARGET_FREEBSD_NR_chdir    12
#define TARGET_FREEBSD_NR_fchdir   13
#define TARGET_FREEBSD_NR_mknod    14
#define TARGET_FREEBSD_NR_chmod    15
#define TARGET_FREEBSD_NR_chown    16
#define TARGET_FREEBSD_NR_break    17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat   18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid    23
#define TARGET_FREEBSD_NR_getuid    24
#define TARGET_FREEBSD_NR_geteuid   25
#define TARGET_FREEBSD_NR_ptrace    26
#define TARGET_FREEBSD_NR_recvmsg   27
#define TARGET_FREEBSD_NR_sendmsg   28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags   34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid   39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid   43
#define TARGET_FREEBSD_NR_profil   44
#define TARGET_FREEBSD_NR_ktrace   45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid    47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin  49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot    55
#define TARGET_FREEBSD_NR revoke   56
#define TARGET_FREEBSD_NR_symlink   57
#define TARGET_FREEBSD_NR_readlink  58
#define TARGET_FREEBSD_NR_execve   59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot    61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */


/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
/* 74 is obsolete vhangup */
/* 75 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_getpgrp 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff 85
#define TARGET_FREEBSD_NR_getpriority 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_getpriority 96
#define TARGET_FREEBSD_NR_socket 97
/* 98 is old accept */
#define TARGET_FREEBSD_NR_getsockopt 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentories */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfhe 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_setrlimit 194
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_netbsd_lchown 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
	/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
	/* 322 is obsolete thr_sleep */
	/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_mmfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR___setugid 355
#define TARGET_FREEBSD_NR___mac_get_proc 356
#define TARGET_FREEBSD_NR___mac_set_proc 357
#define TARGET_FREEBSD_NR___mac_get_fd 358
#define TARGET_FREEBSD_NR___mac_get_file 359
#define TARGET_FREEBSD_NR___setugid 360
#define TARGET_FREEBSD_NR___setugid 361
#define TARGET_FREEBSD_NR___setugid 362
#define TARGET_FREEBSD_NR___setugid 363
#define TARGET_FREEBSD_NR___setugid 364
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#define TARGET_FREEBSD_NR___setugid 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR___setugid 368
#define TARGET_FREEBSD_NR___setugid 369
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#define TARGET_FREEBSD_NR___setugid 384
#define TARGET_FREEBSD_NR___setugid 385
#define TARGET_FREEBSD_NR___setugid 386
#define TARGET_FREEBSD_NR___setugid 387

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#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_signaction 416
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR___umtx_lock 434
#define TARGET_FREEBSD_NR___umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_resume 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_setaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 467
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 468
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 469
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 470
#define TARGET_FREEBSD_NR_pread 471
#define TARGET_FREEBSD_NR_pwrite 472
#define TARGET_FREEBSD_NR_mmap 473
#define TARGET_FREEBSD_NR_mmap 474
#define TARGET_FREEBSD_NR_lseek 475
#define TARGET_FREEBSD_NR_truncate 476
#define TARGET_FREEBSD_NR_ftruncate 477
#define TARGET_FREEBSD_NR_thr_kill2 478
#define TARGET_FREEBSD_NR_shm_open 479
#define TARGET_FREEBSD_NR_shm_unlink 480
#define TARGET_FREEBSD_NR_cpuset 481
#define TARGET_FREEBSD_NR_cpuset_setid 482
#define TARGET_FREEBSD_NR_cpuset_getid 483
#define TARGET_FREEBSD_NR_cpuset_getaffinity 484
#define TARGET_FREEBSD_NR_cpuset_setaffinity 485
#define TARGET_FREEBSD_NR_facessat 486
#define TARGET_FREEBSD_NR_fchmodat 487
#define TARGET_FREEBSD_NR_fchownat 488
#define TARGET_FREEBSD_NR_fstatat    493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat     495
#define TARGET_FREEBSD_NR_mkdirat    496
#define TARGET_FREEBSD_NR_mknodat    497
#define TARGET_FREEBSD_NR_openat     498
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat   501
#define TARGET_FREEBSD_NR_symlinkat  502
#define TARGET_FREEBSD_NR_unlinkat   503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get   506
#define TARGET_FREEBSD_NR_jail_set   507
#define TARGET_FREEBSD_NR_closefrom  508
#define TARGET_FREEBSD_NR___semctl    510
#define TARGET_FREEBSD_NR_msgctl     511
#define TARGET_FREEBSD_NR_shmctl     512
#define TARGET_FREEBSD_NR_lpathconf  513
#define TARGET_FREEBSD_NR_cap_new     514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter   516
#define TARGET_FREEBSD_NR_cap_getmode  517
#define TARGET_FREEBSD_NR_pdfork     518
#define TARGET_FREEBSD_NR_pdkill     519
#define TARGET_FREEBSD_NR_pselect    522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL  532

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References

1. http://www.gnu.org/licenses/license-list.html

Licensing and contribution policy of dtc and libfdt

=====================================================================

This dtc package contains two pieces of software: dtc itself, and libfdt which comprises the files in the libfdt/ subdirectory. These two pieces of software, although closely related, are quite distinct. dtc does not incorporate or rely on libfdt for its operation, nor vice versa. It is important that these two pieces of software have different license conditions.

As the copyright banners in each source file attest, dtc is licensed under the GNU GPL. The full text of the GPL can be found in the file entitled ‘GPL’ which should be included in this package. dtc code, therefore, may not be incorporated into works which do not have a GPL
libfdt, however, is GPL/BSD dual-licensed. That is, it may be used either under the terms of the GPL, or under the terms of the 2-clause BSD license (aka the ISC license). The full terms of that license are given in the copyright banners of each of the libfdt source files. This is, in practice, equivalent to being BSD licensed, since the terms of the BSD license are strictly more permissive than the GPL.

I made the decision to license libfdt in this way because I want to encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL-incompatible firmware or tools. Allowing libfdt to be used under the terms of the BSD license makes it easier for vendors or authors of such software to do so.

This does mean that libfdt code could be "stolen" - say, included in a proprietary firmware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused thereby is not dire.

Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more important goal.

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Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk

Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */

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START_OF_INSTR();
DECODE_PRINTF("BSWAP\n");
switch (op2) {
    case 0xc8:
        DECODE_PRINTF("EAX\n");
        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
        break;
    case 0xc9:
        DECODE_PRINTF("ECX\n");
        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
        break;
    case 0xca:
        DECODE_PRINTF("EDX\n");
        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
        break;
    case 0xcb:
        DECODE_PRINTF("EBX\n");
        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
        break;
    case 0xcc:
        DECODE_PRINTF("ESP\n");
        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
        break;
    case 0xcd:
        DECODE_PRINTF("EBP\n");
        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
        break;
    case 0xce:
        DECODE_PRINTF("ESI\n");
        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
        break;
    case 0xcf:
        DECODE_PRINTF("EDI\n");
        M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
        break;
    }
TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
/*  0xc8 */ x86emuOp2_bswap,
/*  0xc9 */ x86emuOp2_bswap,
/*  0xca */ x86emuOp2_bswap,
/*  0xcb */ x86emuOp2_bswap,
/*  0xcc */ x86emuOp2_bswap,
/*  0xcd */ x86emuOp2_bswap,
/*  0xce */ x86emuOp2_bswap,
/*  0xcf */ x86emuOp2_bswap,
/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH\%d\n", imm);
 TRACERAND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ push_long(imm);
+ } else {
+ push_word(imm);
+ }
 DECODE_CLEAR_SEG_OVR();
 END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACERAND_STEP();
- if (cond)
+ if (cond) {
 M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
 DECODE_CLEAR_SEG_OVR();
 END_OF_INSTR();
}
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
+    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    while (count--) {
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    /* move them until (E)CX is ZERO. */
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
+    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    while (count--) {
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
/* REPE  */
- /* move them until CX is ZERO. */
+ while (M.x86.R_CX != 0) {
  + /* move them until (E)CX is ZERO. */
  + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val1 = fetch_data_byte(M.x86.R_SI);
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(val1, val2);
    - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R_ECX -= 1;
  + else
  + M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    + if (M.x86.intr & INTR_HALTED)
    + break;
    }
  - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R_ECX -= 1;
  + else
  + M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    + if (M.x86.intr & INTR_HALTED)
    + break;
  }
- M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
  @@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
- /* move them until CX is ZERO. */
+ while (M.x86.R_CX != 0) {
  + /* move them until (E)CX is ZERO. */
  + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
      val1 = fetch_data_long(M.x86.R_SI);
      val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    @@ -2655,11 +2674,16 @@
      cmp_word((u16)val1, (u16)val2);
    }
  - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R_ECX -= 1;
  + else
  + M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    + if (M.x86.intr & INTR_HALTED)
    + break;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {

TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
}

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALTED)
    break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            + if (M.x86.intr & INTR_HALTED)
                break;
        }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
        count = M.x86.R_CX;
        /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    }
++count;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    }
++count;
    while (count--) {
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    + if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
++inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
    }
}
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(M.x86.R_AL, val2);
  if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX -= 1;
  else
    M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF) == 0)
    break;
  if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  /* move them until CX is ZERO. */
  while (M.x86.R_CX != 0) {
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
      cmp_byte(M.x86.R_AL, val2);
      if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
      else
        M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF))
        break;  /* zero flag set means equal */
      if (M.x86.intr & INTR_HALTED)
        break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
  }
  TRACE_AND_STEP();
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
      /* move them until (E)CX is ZERO. */
      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
          val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_long(M.x86.R_EAX, val);
        }
      }
    }
  }
  @ @ -2951.8 +3003.8 @@
  TRACE_AND_STEP();
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
      /* move them until (E)CX is ZERO. */
      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
          val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_long(M.x86.R_EAX, val);
        }
      }
    }
  }
  @ @ -2960.16 +3012.21 @@
val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REP;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    -        /* move them until CX is ZERO. */
    -        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
    M.x86.R_IP = pop_word();
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    -        /* move them until CX is ZERO. */
    -        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
    M.x86.R_IP = pop_word();
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
    DECODE_PRINTF("RETt");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
\+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-\+RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+\+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+\+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+\+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX := 1;
-    if (M.x86.R_CX := 0 && !ACCESS_FLAG(F_ZF)) /* CX := 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
\!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
\!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRADE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRADE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRADE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPE\n");
TRADE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,12 +5093,14 @@
break;
    case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRADE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
    void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
    {
        #ifdef __HAS_LONG_LONG__
        -    s64 res = (s64)d * (s64)s;
        +    s64 res = (s64)(s32)d * (s64)(s32)s;
        *
        *res_lo = (u32)res;
        *res_hi = (u32)(res >> 32);
        @@ -2013,7 +2013,7 @@
        void mul_long(u32 s)
        {
            #ifdef __HAS_LONG_LONG__
            -    u64 res = (u32)M.x86.R_EAX * (u32)s;
            +    u64 res = (u64)M.x86.R_EAX * s;
            *
            M.x86.R_EAX = (u32)res;
            M.x86.R_EDX = (u32)(res >> 32);
            @@ -2312,16 +2312,15 @@
            if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
                /* dont care whether REPE or REPNE */
                -    /* in until CX is ZERO. */
                -    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
                +    /* in until (E)CX is ZERO. */
                +    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
                -
                    while (count--) {
                        single_in(size);
                        M.x86.R_DI += inc;
                    }
M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
    -    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
 #include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-#ifndef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

 #ifndef IN_MODULE
 #include "xf86_ansic.h"
 @@ -220,7 +215,7 @@
 }
 DB(if (DEBUG_IO_TRACE())


printk("inb %#04x \n", addr);
-return inb(addr);
+return 0;
}

/**************************************************************************
@@ -235,7 +230,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inw %#04x \n", addr);
    -return inw(addr);
+return 0;
}

/**************************************************************************
@@ -250,7 +245,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
    -return inl(addr);
+return 0;
}

/**************************************************************************
@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
    -outb(val, addr);
    return;
}

@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;
}

@@ -295,7 +288,6 @@
    DB(if (DEBUG_IO_TRACE())
        printk("outl %#08x -> %#04x \n", val, addr);
    -outl(val, addr);
    return;
    }
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (int) base;
    M.mem_size = size;
}

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000
@@ -4,8 +4,6 @@
/*---------------------- Macros and type definitions ----------------------*/
/# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
/# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
/# define DEBUG_TRACECALL_REGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMP_REGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
/# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
/# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
/# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -18,13 +18,5 @@
"%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                                    

x86emu_dump_regs();                                     
if (DEBUG_TRACECALL())                                     	
printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
+# define RETURN_TRACE(u,v,w,x,s)                                    
 if (DEBUG_TRACECALLREGS())
 x86emu_dump_regs();
 if (DEBUG_TRACECALL())
 -printk("%04x:%04x: %s\n", u,v,n);
 +printk("%04x:%04x: RET %s %04x:%04x\n", u,v,s,w,x);
 +# define JMP_TRACE(u,v,w,x,s)                                 
 + if (DEBUG_TRACEJMPREGS()) 
 + x86emu_dump_regs();
 + if (DEBUG_TRACEJMP())
 + printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
 #define CALL_TRACE(u,v,w,x,s)
#endif
#endif DEBUG

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE    0x00000100
 #define SYSMODE_PREFIX_DATA     0x00000200
 #define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS      | \
 SYSMODE_SEGOVR_SS      | \
 SYSMODE_PREFIX_DATA    | \
+ SYSMODE_PREFIX_ADDR    | \
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH          0x1
#define INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
*/
  u32 mode;
  volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#endif DEBUG
-int check;
+ int check;
  u16 saved_ip;
  u16 saved_cs;
  int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/x86emu.h	19 Oct 2007 08:42:15 -0000	1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#endif /* __X86EMU_X86EMU_H */
#****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
# * All rights reserved.
# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
```bash
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether svn, patch, ... is available...
if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion directory..."

rm -rf x86emu
```
echo "Patching files..."

SPATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History
------

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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-- Wolfgang Denk

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To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1].

If a "SPDX-License-Identifier:" line references more than one Unique License Identifier, then this means that the respective file can be used under the terms of either of these licenses, i.e. with

SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause

you can choose between GPL-2.0+ and BSD-3-Clause licensing.

We use the SPDX Unique License Identifiers here; these are available at [2].

License identifier syntax
-------------------------
1. Placement:

The SPDX license identifier in U-Boot files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the '#!PATH_TO_INTERPRETER' in the first line. For those scripts the SPDX identifier goes into the second line.

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::
If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "\*\*\*" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")" .

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.:

// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression:

// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note

Other examples using WITH exceptions found in the linux kernel are:

// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file.
OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses:

// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause

Examples from U-Boot for license expressions in dual licensed files:

// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in U-Boot, but the original license terms need to remain in effect:

// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

Another other example where both sets of license terms need to be adhered to is:

// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+


Full name | SPDX Identifier | OSI Approved | File Name | URI
---|----------------|--------------|-----------|---
GNU General Public License v2.0 only | GPL-2.0 | Y | gpl-2.0.txt | http://www.gnu.org/licenses/gpl-2.0.txt
GNU General Public License v2.0 or later | GPL-2.0+ | Y | gpl-2.0.txt | http://www.gnu.org/licenses/gpl-2.0.txt
GNU Library General Public License v2 or later | LGPL-2.0+ | Y | lgpl-2.0.txt | http://www.gnu.org/licenses/old-licenses/lgpl-2.0.txt
GNU Lesser General Public License v2.1 or later | LGPL-2.1+ | Y | lgpl-2.1.txt | http://www.gnu.org/licenses/old-licenses/lgpl-2.1.txt
eCos license version 2.0 | eCos-2.0 | eCos-2.0.txt | http://www.gnu.org/licenses/ecos-license.html
BSD 2-Clause | BSD-2-Clause | Y | bsd-2-clause.txt | http://spdx.org/licenses/BSD-2-Clause
BSD 3-clause "New" or "Revised" License | BSD-3-Clause | Y | bsd-3-clause.txt | http://spdx.org/licenses/BSD-3-Clause
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Open Source Used In Secure Workload 3.6.1.1 22561
vary depending on what target you are building.

The resultant applicable licence(s) for any particular build can be determined by using "make bin/xxxxxx.yyy.licence"; for example:

make bin/rtl8139.rom.licence

to determine the resultant licence(s) for the build bin/rtl8139.rom

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cni.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<th>Year</th>
<th>Owner</th>
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(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<plejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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distribution or on the World Wide Web at http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-------------------------------------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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&mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

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I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

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Re: [Cracklib-devel] cracklib license
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yes. go for it. thanks++
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> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helio=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277DD2DE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

------------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

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> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.1760 xz 5.2.3
1.1760.1 Available under license :

XZ Utils Licensing
==================

Different licenses apply to different files in this package. Here
is a rough summary of which licenses apply to which parts of this
package (but check the individual files to be sure!):

- liblzma is in the public domain.

- xz, xzdec, and lzmadec command line tools are in the public
domain unless GNU getopt_long had to be compiled and linked
in from the lib directory. The getopt_long code is under
GNU LGPLv2.1+.

- The scripts to grep, diff, and view compressed files have been
  adapted from gzip. These scripts and their documentation are
  under GNU GPLv2+.

- All the documentation in the doc directory and most of the
  XZ Utils specific documentation files in other directories
  are in the public domain.

- Translated messages are in the public domain.
- The build system contains public domain files, and files that are under GNU GPLv2+ or GNU GPLv3+. None of these files end up in the binaries being built.

- Test files and test code in the tests directory, and debugging utilities in the debug directory are in the public domain.

- The extra directory may contain public domain files, and files that are under various free software licenses.

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If you have questions, don't hesitate to ask the author(s) for more information.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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1.1767 spidermonkey 17.0.0 20.el7

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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# A. HISTORY OF THE SOFTWARE
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# Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
# In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
# In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen Python Labs team. In October of the same year, the Python Labs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
# All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python
# releases have also been GPL-compatible; the table below summarizes
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#
# | Release | Derived from | Year       | Owner       | GPL-compatible? |
# |---------|--------------|------------|-------------|-----------------|
# | 0.9.0 thru 1.2 | 1991-1995   | CWI        | yes         |
# | 1.3 thru 1.5.2 | 1.2         | 1995-1999  | CNRI        | yes (2)         |
# | 1.6      | 1.5.2       | 2000       | CNRI        | no              |
# | 2.0      | 1.6         | 2000       | BeOpen.com  | no              |
# | 1.6.1    | 1.6         | 2001       | CNRI        | yes (2)         |
# | 2.1      | 2.0+1.6.1   | 2001       | PSF         | no              |
# | 2.0.1    | 2.0+1.6.1   | 2001       | PSF         | yes             |
# | 2.1.1    | 2.1+2.0.1   | 2001       | PSF         | yes             |
# | 2.2      | 2.1.1       | 2001       | PSF         | yes             |
# | 2.1.2    | 2.1.1       | 2002       | PSF         | yes             |
# | 2.1.3    | 2.1.2       | 2002       | PSF         | yes             |
# | 2.2.1    | 2.2         | 2002       | PSF         | yes             |
# | 2.2.2    | 2.2.1       | 2002       | PSF         | yes             |
# | 2.2.3    | 2.2.2       | 2003       | PSF         | yes             |
# | 2.3      | 2.2.2       | 2002-2003  | PSF         | yes             |
# | 2.3.1    | 2.3         | 2002-2003  | PSF         | yes             |
# | 2.3.2    | 2.3.1       | 2002-2003  | PSF         | yes             |
# | 2.3.3    | 2.3.2       | 2002-2003  | PSF         | yes             |
# | 2.3.4    | 2.3.3       | 2004       | PSF         | yes             |
# | 2.3.5    | 2.3.4       | 2005       | PSF         | yes             |
# | 2.4      | 2.3         | 2004       | PSF         | yes             |
# | 2.4.1    | 2.4         | 2005       | PSF         | yes             |
# | 2.4.2    | 2.4.1       | 2005       | PSF         | yes             |
# | 2.4.3    | 2.4.2       | 2006       | PSF         | yes             |
# | 2.4.4    | 2.4.3       | 2006       | PSF         | yes             |
# | 2.5      | 2.4         | 2006       | PSF         | yes             |
# | 2.5.1    | 2.5         | 2007       | PSF         | yes             |
# | 2.5.2    | 2.5.1       | 2008       | PSF         | yes             |
# | 2.5.3    | 2.5.2       | 2008       | PSF         | yes             |
# | 2.6      | 2.5         | 2008       | PSF         | yes             |
# | 2.6.1    | 2.6         | 2008       | PSF         | yes             |
# | 2.6.2    | 2.6.1       | 2009       | PSF         | yes             |
# | 2.6.3    | 2.6.2       | 2009       | PSF         | yes             |
# | 2.6.4    | 2.6.3       | 2009       | PSF         | yes             |
# | 2.6.5    | 2.6.4       | 2010       | PSF         | yes             |
# | 2.7      | 2.6         | 2010       | PSF         | yes             |
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This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflat) codec.

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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1773 sqlite 3.20.0

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### 1.1775 fipscheck 1.4.1 5.el7

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1.1776 tftp-hpa 5.2-22.el7

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```

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* /opt/cola/permits/1156126921_1629934918.37/0/tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftp/tftp.1.in

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```
="/opt/cola/permits/1156126921_1629934918.37/0/tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftp/tftp.1.in

/* ----------------------------------------------------------------------- */
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This program is free software available under the same license as the "OpenBSD" operating system, distributed at http://www.openbsd.org/.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for...
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}_%{bindir}
mkdir -p ${RPM_BUILD_ROOT}_%{mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}_%{sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{bindir} MANDIR=%{mandir} \ 
install
install -m755 -d ${RPM_BUILD_ROOT}_%{sysconfdir}/xinetd.d/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}_%{sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{bindir}/tftp
%{mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{bindir}/in.tftpd
%{mandir}/man8/*
%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added ",-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for ",-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <bjj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <bjj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
is preferable to starting as nobody w/o ability to chroot.
  - %post is needed by server, not client. Add %postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <bjj@redhat.com>
  - correct group.
* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 2 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

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* /opt/cola/permits/1156126921_1629934918.37/0/tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-targ-
  gz/tftpd/tftpd.c
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* /opt/cola/permits/1156126921_1629934918.37/0/tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftp/extern.h

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* /opt/cola/permits/1156126921_1629934918.37/0/tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-targ-gz/tftp/main.c
* /opt/cola/permits/1156126921_1629934918.37/0/tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-targ-gz/tftp/tftp.c

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1.1782 python-setuptools 38.5.2
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtMethod.java
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*/
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/SyntaxError.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/web/BadHttpRequest.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/Bytecode.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/annotation/AnnotationImpl.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformNewClass.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/Bytecode/DeprecatedAttribute.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/CastExpr.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Keyword.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/URLClassPath.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Loader.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Loader.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Loader.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPool.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPoolTail.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPoolTail.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPoolTail.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPoolTail.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPoolTail.java

* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ClassPoolTail.java
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Found in path(s):
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
1.1785 kgio 2.11.4

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1.1786 python-pyudev 0.15 9.el7

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Version 2.1, February 1999
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That's all there is to it!

1.1787 bash 4.2.46 31.el7

1.1787.1 Available under license :

From sspecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: sspecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from sspecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from sspecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <sspecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~sspecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John
On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site
a while back. I'd like your permission to include modified versions
of some of them in the next major bash distribution (with proper credit
given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.''' - Chaucer

Chet Ramey, Case Western Reserve University\Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

> Hi. I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

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# spdx-license-ids


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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```sh
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')
Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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'openssl_cflags_BSD-x86_64': [
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'-pthread',
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'openssl_ex_libs_BSD-x86_64': [
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'openssl/apps/ciphers.c',
'openssl/apps/cms.c',
'openssl/apps/crl.c',
'openssl/apps/crl2p7.c',
'openssl/apps/dgst.c',
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'openssl/apps/dsa.c',
'openssl/apps/dsaparam.c',
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'openssl/apps/errstr.c',
'openssl/apps/gendsa.c',
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'openssl/apps/s_server.c',
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'openssl/apps/smime.c',
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'openssl/apps/spkac.c',
'openssl/apps/srp.c',
'openssl/apps/storeutl.c',
'openssl/apps/ts.c',
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'openssl/apps/version.c',
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}  
Minizlib was created by Isaac Z. Schlueter.  
It is a derivative work of the Node.js project.  

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            'openssl/ssl/packet.c',
            'openssl/ssl/pqueue.c',
            'openssl/ssl/record/dtls1_bitmap.c',
            'openssl/ssl/record/rec_layer_d1.c',
            'openssl/ssl/record/rec_layer_s3.c',
            'openssl/ssl/record/ssl3_buffer.c',
            'openssl/ssl/record/ssl3_record.c',
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            'openssl/ssl/s3_cbc.c',
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            'openssl/ssl/ssl_init.c',
            'openssl/ssl/ssl_lib.c',
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'openssl/crypto/asn1/i2d_pr.c',
'openssl/crypto/asn1/i2d_pu.c',
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Open Source Used In Secure Workload 3.6.1.1  23019
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Open Source Used In Secure Workload 3.6.1.1 23026
'openssl/crypto/x509v3/v3_akeya.c',
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'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
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'openssl_sources_BSD-x86_64': [
],
'openssl_defines_BSD-x86_64': [
'NDEBUG',
'L_ENDIAN',
'OPENSSL_PIC',
],
'openssl_cflags_BSD-x86_64': [
'-Wall -O3',
'-pthread',
'-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
'-pthread',
],
'include_dirs': [
]
'include',
'crypto',
'crypto/include/internal',
]
'defines': ['<@(openssl_defines_BSD-x86_64)]
'cflags': ['<@(openssl_cflags_BSD-x86_64)]
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)]
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)]
}
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'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
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'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
]

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'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/aesni-sha1-x86_64.s',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/sha1-mb-x86_64.s',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/sha512-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/whirlpool/wp-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/whirlpool/wp-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
]

'openssl_defines_BSD-x86_64': [
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'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
]
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'X25519_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
'-Wa,-noexecstack',
'-Wall -O3',
'-pthread',
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],
'openssl_ex_libs_BSD-x86_64': [
'-pthread',
],
',include_dirs': [
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'/include',
'/crypto',
'/crypto/include/internal',
],
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'cflags': ['<@(openssl_cflags_BSD-x86_64)]',
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)]',
'sources': ['<@(openssl_sources)' '<@(openssl_sources_BSD-x86_64)]',
}

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Ty Coon, President of Vice

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Open Source Used In Secure Workload 3.6.1.1  23152
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]
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(valid('Apache 2.0'),
```

---

**Open Source Used In Secure Workload 3.6.1.1 23168**
{  
  validForOldPackages: false, 
  validForNewPackages: false, 
  warnings: [ 
    'license should be ' + 
    'a valid SPDX license expression (without "LicenseRef"), ' + 
    '"UNLICENSED", or ' + 
    '"SEE LICENSE IN <filename>"', 
    'license is similar to the valid expression "Apache-2.0"' 
  ] 
} 

```
SPDX expressions are valid, too ...
```

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = { 
  validForOldPackages: false, 
  validForNewPackages: false, 
  spdx: true, 
  warnings: [ 
    'license should be ' + 
    'a valid SPDX license expression (without "LicenseRef"), ' + 
    '"UNLICENSED", or ' + 
    '"SEE LICENSE IN <filename>"', 
  ] 
};
```

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
valid('SEE LICENSE IN LICENSE.txt'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
}
);

assert.deepEqual(
valid('SEE LICENSE IN license.md'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'license.md'
}
);
``` 

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
``` 

1.1797 containerd-fifo 1.0.0

**1.1797.1 Available under license:**

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Version 2.0, January 2004

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MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
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The reason we have a separate public license for some libraries is that
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program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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preserving your freedom as a user of such programs to change the free
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1.1801 nss-util 3.44.0-1.el6_10

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1.1803 hd-parm 9.43 5.el7
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1.1806 seaborn 0.7.1

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1.1828 commons-validator 1.6

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *<p>
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *<p>
 * @return the name of the license
 */
  String name();

/**
 * An optional URL for the license.
 *<p>
 *
* @return an optional URL for the license.
* /
String url() default "";
}

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# Jackson JSON processor

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For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

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 */

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

******************************************************************************

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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/*
LZ4 - Fast LZ compression algorithm
Header File
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:
  hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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For:
XML Commons External Components XML APIs 1.3.04

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JUnit 4.11
ecj-4.3.1.jar

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JSch 0.1.42
ParaNamer Core 2.3
JLine 0.9.94
leveldbjni-all 1.8
Hamcrest Core 1.3
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com.typesafe.akka:akka-actor_2.11:2.4.20
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com.typesafe.play:play-functional_2.11:2.3.10
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/*

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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#
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"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

def get_update_list():
"""Return the list of files to update.
Assumes that the current working directory when called is the root
of the GDB source tree (NOT the gdb/ subdirectory!). The names of

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the files are relative to that root directory.

```python
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    ""
    
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                        stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
```
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
    if lineno > 50:
        return False
    return False
def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

############################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/CONTRIBUTE',
    'gdb/gnulib'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
)
"fdl.texi", "gpl.texi", "acllocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-acfcp.e",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01"
if __name__ == '__main__':
    main()

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extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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The "source code" for a work means the preferred form of the work for
making modifications to it. "Object code" means any non-source form
of a work.

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standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
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includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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<one line to give the library's name and a brief idea of what it does.>
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@end appendix

Preamble

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the \textit{Lesser} General Public License because it does \textit{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The `Library', below, refers to any such software library or work which has been distributed under these terms. A `work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term `modification'.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based
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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable `work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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facilities. This must be distributed under the terms of the
Sections above.

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Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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@end enumerate

@end iftex
@end ifinfo
@end page

@appendixsubsec How to Apply These Terms to Your New Libraries

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@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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@end smallexample

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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

BEGIN{
FS="\""
 print "/\* Do not modify this file!! " \\
"*- buffer-read-only: t -* vi" \\
":set ro:";
 print " It is created automatically by copying.awk.";
 print " Modify copying.awk instead. <=*= */";
 print ""
 print "\#include \"defs.h\"
 print "\#include \"command.h\"
 print "\#include \"gdbcmd.h\"
 print ""
 print "static void show_copying_command (char *, int);";
 print ""
 print "static void show_warranty_command (char *, int);";
 print ""
 print "void _initialize_copying (void);";
 print ""
 print "static void";
 print "show_copying_command (char *ignore, int from_tty);";
 print "{";
}
NR == 1;/\*[ ]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
 { printf " printf_filtered (\"\n\n\n";
 }
else if ($0 !~ /\*[ ]*15\. Disclaimer of Warranty\[ ]*$/)
 { printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "\"%s\n\"", $i;
    printf "\"%s\n\"", $NF;
}
}

/^[*]*/15. Disclaimer of Warranty\[ ]*$/{
    print "\"\";
    print "(";
    print "$0 ~ */\[ ]*/END OF TERMS AND CONDITIONS[ ]*$/)
    {
        printf "\"printf_filtered (\"%;
            for (i = 1; i < NF; i++)
        printf "\"%s\n\"", $i;
            printf "\"%s\n\"", $NF;
        }

END{}
    print "\";
    print "\";
    print "void"
    print "\"_initialize_copying (void)\";";
    print "\";
    print "\"add_cmd (\"copying\", no_set_class, show_copying_command,\";";
    print "\"_\"Conditions for redistributing copies of GDB\"),\";";
    print "\"&showlist);\";";
    print "\"add_cmd (\"warranty\", no_set_class, show_warranty_command,\";";
    print "\"_\"Various kinds of warranty you do not have\"),\";";
    print "\"&showlist);\";";
    print "\";
    print "\"*/ For old-timers, allow \"info copying\", etc. */\";";
    print "\"add_info (\"copying\", show_copying_command,\";";
    print "\"_\"Conditions for redistributing copies of GDB\"));\";";
    print "\"add_info (\"warranty\", show_warranty_command,\";";
    print "\"_\"Various kinds of warranty you do not have\"));\";";
    print "\"\";";
}

1.1858 fio 3.7-2.el7
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1.1859 audit 2.4.5 6.el6
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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distribute the object code for the work under the terms of Section 6.
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b) Use a suitable shared library mechanism for linking with the
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interface-compatible with the version that the work was made with.

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1.1863 jackson 2.10.3

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# Jackson JSON processor

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1.1865 rails-stdout-logging 0.0.5

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1.1866 nss-pem 1.0.3 5.el7_6.1
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 *
 */
 /**
 * Embedded non-blocking server and server bootstrap.
 */

package org.apache.http.impl.nio.bootstrap;

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
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Burr, Michael E
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Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
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Espie, Marc
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Farrell, Brian
Fobes, Steve
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Gerraty, Simon J.
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Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
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Holloway, Nick
Hoover, Adam
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Hutchings, Ben
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Jackson, John R.
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Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
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Fontenelle, Rafael
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Karvonen, Jorma
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Kramer, Jakob
Krzmar, Tomislav
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 * Part No: 816-1331-11
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/*
 * hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
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HMAC: Keyed-Hashing for Message Authentication

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1.1884 cryptsetup 1.2.0-11.el6

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java

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  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/DatagramPacketEncoder.java

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  jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/string/package-info.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
jar/io/netty/handler/codec/ReplayingDecoder.java
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 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
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  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1-
  jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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/**
* Utility class for [ @link ByteBuf] that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain

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* Base64 Encoder/Decoder
*

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1.jar/io/netty/handler/codec/base64/Base64.java

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1.jar/io/netty/handler/codec/Headers.java
* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4-1-26-final-sources-1.jar/io/netty/handler/codec/EmptyHeaders.java

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* /opt/ws_local/PERMITS_SQL/1078477212_1597306873.74/0/netty-codec-4.1-26-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
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**
* A decoder that splits the received [@link ByteBuf]s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* 
* [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* 
* <h3>2 bytes length field at offset 0, do not strip header</h3>
* 
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

* `<pre>`
* `<b>lengthFieldOffset</b> = 0`
* `<b>lengthFieldLength</b> = 2`
* `lengthAdjustment = 0`
* `initialBytesToStrip = 0 (= do not strip header)`

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>`

* `<h3>2 bytes length field at offset 0, strip header</h3>`

* Because we can get the length of the content by calling `[@link ByteBuf#readableBytes()]`, you might want to strip the length field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we specified `<tt>2</tt>`, that is same with the length of the length field, to strip the first two bytes.
* `<pre>`
* `lengthFieldOffset = 0`
* `lengthFieldLength = 2`
* `lengthAdjustment = 0`
* `<b>initialBytesToStrip</b> = `<b>2</b>` (= the length of the Length field)
* /

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>`

* `<h3>2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message</h3>`

* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `<tt>lengthAdjustment</tt>`. Because the length value in this example message is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>` as `<tt>lengthAdjustment</tt>` for compensation.
* `<pre>`
* `lengthFieldOffset = 0`
* lengthFieldLength = 2
* \(<b>\)lengthAdjustment</b> = \(<b>\)-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
* |-----------+----------------+      |-----------+----------------+ 
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* |-----------+----------------+      |-----------+----------------+ 
* </pre>
*
* BEFORE DECODE (17 bytes)       AFTER DECODE (17 bytes)
* |-----------+-------------+      |-----------+-------------+ 
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |      | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* |-----------+-------------+      |-----------+-------------+ 
* </pre>
*
* BEFORE DECODE (17 bytes)       AFTER DECODE (17 bytes)
* |-----------+-------------+      |-----------+-------------+ 
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |      | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* |-----------+-------------+      |-----------+-------------+ 
* </pre>
*
* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field<h3>

* This is a combination of all the examples above. There are the prepended
  * header before the length field and the extra header after the length field.
  * The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
  * header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
  * <tt>initialBytesToStrip</tt> to strip the length field and the prepended
  * header from the frame. If you don't want to strip the prepended header, you
  * could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
  * <pre>
  * lengthFieldOffset   = 1 (= the length of HDR1)
  * lengthFieldLength   = 2
  * <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
  * <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
  * 
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +-----------------------------+-----------------------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +-----------------------------+-----------------------------+
  * </pre>

* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field, the length field
  * represents the length of the whole message<h3>

* Let's give another twist to the previous example. The only difference from
  * the previous example is that the length field represents the length of the
  * whole message instead of the message body, just like the third example.
  * We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
  * Please note that we don't need to take the length of HDR2 into account
  * because the length field already includes the whole header length.
  * <pre>
  * lengthFieldOffset   = 1
  * lengthFieldLength   = 2
  * <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
  * <b>initialBytesToStrip</b> = <b>3</b>
  * 
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +-----------------------------+-----------------------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +-----------------------------+-----------------------------+
  * </pre>

* @see LengthFieldPrepender
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* djb's sample implementation of curve25519 is written in a special assembly 
* language called qhasm and uses the floating point registers. 
* 
* This is, almost, a clean room reimplementation from the curve25519 paper. It 
* uses many of the tricks described therein. Only the crecip function is taken 
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```bash
kadmin/create
kadmin/dbutil
```

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<code class="docutils literal"><span class="pre">src/lib/gssapi</span></code>, including the following files:
Open Source Used In Secure Workload 3.6.1.1  24089

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<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">g_rel_buffer</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">g_rel_cred</span>.<span class="od">c</span>  
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<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">g_seal</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">g_sign</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">g_store_cred</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">g_unseal</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">g_verify</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">gssd_pname_to_uid</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">mgluPeP</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">oid_ops</span>.<span class="od">c</span>  
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="o">mechglue</span>/<span class="n">spnego</span>.<span class="od">c</span>
and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/kprop.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.c
lib/kdb/iprop_convert.c
lib/kdb/iprop_log.c
lib/kdb/iprop_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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</div></blockquote>
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.. parsed-literal::

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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c

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and the initial implementation of incremental propagation, including
the following new or changed files:

```plaintext
.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   kprop/kpropd_rpc.c
   kprop/kproplog.c
```

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        if is_license:
            text_seen = True
        if not is_license and not code_seen:
            code_seen = True
        if not is_license and not nonlicense_seen:
            nonlicense_seen = True

# This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break

# DB2 licenses start with '/*-' and we don't want to change them.
if line != "" and line != ':-
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* \([^ \]*\)\(-.*?\)\-*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\/*.*?\-*/', '', line)
        line = line.strip()

        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())

        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        if line.strip() != ":"
code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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.. include:: notice.rst

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1.1910 certifi 2020.12.05

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1.1911 xinetd 2.3.15

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So, if you want, you may use any 2.N.* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.* line; using that would only create confusion. Naming the next release 2.3.0 would put to rest the confusion about 2.2.1 and 2.1.8.*.

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1.1912 jetty-util 9.2.24.v20180105

1.1913 cryptsetup 1.6.7 1.el7

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* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JStylerObj.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONUtil.java
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* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONParserInputStream.java
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4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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/* It does require the zlib library and optionally the IJG jpeg library, * *
/* and/or the "little-cms" library by Marti Maria (depending on the * *
/* inclusion of support for JNG and Full-Color-Management respectively. * *
/* This library's function is primarily to read and display MNG * *
/* animations. It is not meant as a full-featured image-editing * *
/* component! It does however offer creation and editing functionality * *
/* at the chunk level. * *
/* (future modifications may include some more support for creation * *
/* and or editing) * *

MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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1.1937 python-dateutil 2.7.3-1.ph3

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1.1940 six 1.11.0-3.ph3
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1.1941 perl-extutils-manifest 1.61 244.el7  

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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 */

package org.apache.hadoop.hdfs.protocol.datatransfer;

import org.apache.hadoop.HadoopIllegalArgumentException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hdfs.protocol.DatanodeInfo;

/**
 * The setting of replace-datanode-on-failure feature.
 */
@InterfaceAudience.Private
@InterfaceStability.Evolving
public enum ReplaceDatanodeOnFailure {
    DISABLE,
    /* Never add a new datanode. */
```
NEVER,
/**
 * DEFAULT policy:
 * Let r be the replication number.
 * Let n be the number of existing datanodes.
 * Add a new datanode only if r >= 3 and either
 * (1) floor(r/2) >= n; or
 * (2) r > n and the block is hflushed/appendd.
 */
DEFAULT,
/** Always add a new datanode when an existing datanode is removed. */
ALWAYS;

/** Check if the feature is enabled. */
public void checkEnabled() {
    if (this == DISABLE) {
        throw new UnsupportedOperationException("This feature is disabled. Please refer to " + DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY + " configuration property.");
    }
}

/** Is the policy satisfied? */
public boolean satisfy(final short replication, final DatanodeInfo[] existings, final boolean isAppend, final boolean isHflushed) {
    final int n = existings == null? 0: existings.length;
    if (n == 0 || n >= replication) {
        //don't need to add datanode for any policy.
        return false;
    } else if (this == DISABLE || this == NEVER) {
        return false;
    } else if (this == ALWAYS) {
        return true;
    } else {
        //DEFAULT
        if (replication < 3) {
            return false;
        } else {
            if (n <= (replication/2)) {
                return true;
            } else {
                return isAppend || isHflushed;
            }
        }
    }
    return false;
}

/** Get the setting from configuration. */
public static ReplaceDatanodeOnFailure get(final Configuration conf) {
    final boolean enabled = conf.getBoolean(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY,
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_DEFAULT);
    if (!enabled) {
        return DISABLE;
    }

    final String policy = conf.get(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY,
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_DEFAULT);
    for(int i = 1; i < values().length; i++) {
        final ReplaceDatanodeOnFailure rdof = values()[i];
        if (rdof.name().equalsIgnoreCase(policy)) {
            return rdof;
        }
    }
    throw new HadoopIllegalArgumentException("Illegal configuration value for "
        + DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY
        + ": " + policy);
}

/** Write the setting to configuration. */
public void write(final Configuration conf) {
    conf.setBoolean(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY,
        this != DISABLE);
    conf.set(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY,
        name());
}

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/** Replication parameter. */
public class ReplicationParam extends ShortParam {
    /** Parameter name. */
    public static final String NAME = "replication";
    /** Default parameter value. */
    public static final String DEFAULT = NULL;

    private static final Domain DOMAIN = new Domain(NAME);

    /**
     * Constructor.
     * @param value the parameter value.
     */
    public ReplicationParam(final Short value) {
        super(DOMAIN, value, (short)1, null);
    }

    /**
     * Constructor.
     * @param str a string representation of the parameter value.
     */
    public ReplicationParam(final String str) {
        this(DOMAIN.parse(str));
    }

    @Override
    public String getName() {
        return NAME;
    }

    /** @return the value or, if it is null, return the default from conf. */
    public short getValue(final Configuration conf) {
        return getValue() != null ? getValue() : (short)conf.getInt(DFS_REPLICATION_KEY, DFS_REPLICATION_DEFAULT);
    }
}

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package org.apache.hadoop.hdfs.web.resources;

import org.apache.hadoop.fs.permission.FsPermission;

/** Permission parameter, use a Short to represent a FsPermission. */
public class PermissionParam extends ShortParam {

    /** Parameter name. */
    public static final String NAME = "permission";

    /** Default parameter value. */
    public static final String DEFAULT = NULL;

    private static final Domain DOMAIN = new Domain(NAME, 8);

    private static final short DEFAULT_PERMISSION = 0755;

    /** @return the default FsPermission. */
    public static FsPermission getDefaultFsPermission() {
        return new FsPermission(DEFAULT_PERMISSION);
    }

    /**
     * Constructor.
     * @param value the parameter value.
     */
    public PermissionParam(final FsPermission value) {
        super(DOMAIN, value == null? null: value.toShort(), null, null);
    }

    /**
     * Constructor.
     * @param str a string representation of the parameter value.
     */
    public PermissionParam(final String str) {
        super(DOMAIN, str == null? null: str, null, null);
    }
}
super(DOMAIN, DOMAIN.parse(str), (short)0, (short)01777);
}

@Override
public String getName() {
    return NAME;
}

/** @return the represented FsPermission. */
public FsPermission getFsPermission() {
    final Short v = getValue();
    return new FsPermission(v != null? v: DEFAULT_PERMISSION);
}

1.1958 structs 1.1.0

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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@heading TERMS AND CONDITIONS

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Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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```
Gnomovision version 69, Copyright (C) year name of author
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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

**HISTORY** -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for...
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agt@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain
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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates.
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
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1.1978 vim 7.4.629-7.el7

1.1978.1 Available under license:

*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:
You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
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      (in any way) for a copy of the modified Vim you distributed, you
      must make your changes, including source code, available to the
      maintainer without fee. The maintainer reserves the right to
      include your changes in the official version of Vim. What the
      maintainer will do with your changes and under what license they
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      then this license, or a later version, also applies to your changes.
      The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
      changes it will be announced in appropriate places (most likely
      vim.sf.net, www.vim.org and/or comp.editors). When it is completely
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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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=== end of license ===

Note:
If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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==============================================================================
Kibaale Children's Centre  *KCC*  *Kibaale*  *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income...
(if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.
The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
   Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
      Rabobank Lisse, account 3765.05.117
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under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

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1.1980 libdnet 1.12 13.1.el7

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1.1981 go-yaml 3.0.0-20200313102051-9f266ea9e77c

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1.1982 bits-and-blooms-bitset 1.2.0

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1.1984 emitter 0.4.1

1.1985 hadoop-mapreduce-client-jobclient

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/[lz4.h,lz4.c,lz4hc.h,lz4hc.c]
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.4.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
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This software uses the SSL libraries from the Jetty project written by mortbay.org.
Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.1986 jackson-jaxrs-base 2.10.3
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  jar/javassist/util/proxy/ProxyFactory.java
Open Source Used In Secure Workload 3.6.1.1 24854
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/util/proxy/SecurityActions.java
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1.1992 converter-jackson 2.5.0

1.1993 etcd 3.4.10
1.1993.1 Available under license:

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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# Vendored Dependency Licenses

Nokogiri ships with some third party dependencies, which are listed here along with their licenses.

Note that this document is broken into multiple sections, each of which describes the dependencies of a different "platform release" of Nokogiri.

<!-- toc -->

* [Default platform release ("ruby")](#default-platform-release-ruby)
* [Native Linux platform releases ("x86_64-linux" and "arm64-linux")](#native-linux-x86-64-linux-and-arm64-linux)
* [Native Darwin (macOS) platform releases ("x86_64-darwin" and "arm64-darwin")](#native-darwin-x86-64-darwin-and-arm64-darwin)
* [Native Windows platform releases ("x86-mingw32" and "x64-mingw32")](#native-windows-x86-mingw32-and-x64-mingw32)
* [Java (JRuby) platform release ("java")](#java-jruby-platform-release-java)
* [Appendix: Dependencies' License Texts](#appendix-dependencies-license-texts)

<!-- tocstop -->

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [zlib](#zlib)
- [libiconv](#libiconv)
- [isorelax](#isorelax)
- [jing](#jing)
- [nekodtd](#nekodtd)
- [nekohtml](#nekohtml)
- [xalan](#xalan)
- [xerces](#xerces)
- [xml-apis](#xml-apis)
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You can double-check the dependencies in your gem file by examining the output of `nokogiri -v` after installation, which will emit the complete set of libraries in use (for versions `>= 1.11.0.rc4`).

In particular, I'm sure somebody's lawyer, somewhere, is going to freak out that the LGPL appears in this file; and so I'd like to take special note that the dependency covered by LGPL, `libiconv`, is only being redistributed in the native Windows and native Darwin platform releases. It's not present in default, Java, or native Linux releases.

## Default platform release ("ruby")

The default platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "ruby" for its "platform" attribute.

## Native Linux platform releases ("x86_64-linux" and "arm64-linux")

The native Linux platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [zlib](#zlib)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-linux" or "x86-linux" for its "platform.cpu" attribute.

## Native Darwin (macOS) platform releases ("x86_64-darwin" and "arm64-darwin")

The native Darwin platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [zlib](#zlib)
- [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-darwin" or "arm64-darwin" for its "platform.cpu" attribute. Darwin is also known more familiarly as "OSX" or "macOS" and is the operating system for many Apple computers.
## Native Windows platform releases ("x86-mingw32" and "x64-mingw32")

The native Windows platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [zlib](#zlib)
- [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x64-mingw32" or "x86-mingw32" for its "platform.cpu" attribute.

## Java (JRuby) platform release ("java")

The Java platform release distributes the following dependencies as compiled jar files:

- [isorelax](#isorelax)
- [jing](#jing)
- [nekohtml](#nekohtml)
- [xalan](#xalan)
- [xerces](#xerces)
- [xml-apis](#xml-apis)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "java" for its "platform.os" attribute.

## Appendix: Dependencies' License Texts

This section contains a subsection for each potentially-distributed dependency, which includes the name of the license and the license text.

Please see previous sections to understand which of these potential dependencies is actually distributed in the gem file you're downloading and using.

### libxml2

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http://xmlsoft.org/

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### libxslt

MIT

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### zlib

zlib license

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

### libiconv

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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* /opt/cola/permits/1135383003_1613504060.52/0/audit-5-3-7-sources-2-jar/org/xipki/audit/AuditEvent.java
* /opt/cola/permits/1135383003_1613504060.52/0/audit-5-3-7-sources-2-jar/org/xipki/audit/auditEvent.java
* /opt/cola/permits/1135383003_1613504060.52/0/audit-5-3-7-sources-2-jar/org/xipki/audit/services/package-info.java
* /opt/cola/permits/1135383003_1613504060.52/0/audit-5-3-7-sources-2-jar/org/xipki/audit/AuditServiceRuntimeException.java
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1.2011 jersey-json 1.1.5.1

1.2012 bridgeutils 1.2-10.el6

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1.2017 libxml 2.7.6 21.el6_8.1
1.2017.1 Available under license :

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1.2018 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637

1.2018.1 Available under license:

tomb - support for clean goroutine termination in Go.

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1.2019 icu 50.1.2-17.el7

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADS CPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

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%.o: $(srcdir)/%.cpp
$(COMPILEx.c) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n sed '!s/\($*\)/\1.o $@ : /g\" > $@; \n [-s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n sed '!s/\($*\)/\1.o $@ : /g\" > $@; \n [-s $@ ] || rm -f $@

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.2020 atk 2.26.2-1.el7
1.2020.1 Available under license:
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[However, none of that term is relevant at this point in time. All of
these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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[The licence continues]

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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@end smallexample

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@end c man end

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@ut.amsdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may
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*m4/ax_func_which_gethostbyname_r.m4

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treats it as such.

Because of this blurred distinction, using the ordinary General
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/DoNotCall.java

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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/CompileTimeConstant.java
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1.2068 jetty-webapp 9.4.20.v20190813

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2070 lzo 2.08

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1.2086 python-ipaddress 1.0.17-1.tet

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1.2088 cyphar/filepath-securejoin 0.2.2

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1.2091 shaded-asynchtppclient 1.1.9

1.2092 python-jsonpointer 1.0 3.el6.centos

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1.2094 commons-io 2.5

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<html lang="en">
<head>
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<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
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<link href="/css/styles.css" rel='stylesheet' type='text/css' />

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<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>

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<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span class="caret"></span> </a>
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<li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
<li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
</ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span class="caret"></span> </a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>

</div>
</div>
</div>
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</div>
</div>
</nav>
</header>

<!-- / Navigation -->
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<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
<img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache" style="margin-left: 150px;">
<img src="/images/SupportApache-small.png" style="height: 150px; width: 150px;">
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
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var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
</script>
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.2102 jline-terminal 3.9.0

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CyToolz
=======

|Build Status| |Version Status| |Downloads|

Cython implementation of the
[literal toolz]_ `package, <https://pypi.python.org/pypi/toolz/>`__ which
provides high performance utility functions for iterables, functions,
and dictionaries.

.. _literal toolz: https://github.com/pytoolz/toolz

``toolz`` is a pure Python package that borrows heavily from contemporary
functional languages. It is designed to interoperate seamlessly with other
libraries including ``iterools``, ``functools``, and third party libraries.
High performance functional data analysis is possible with builtin types
like ``list`` and ``dict``, and user-defined data structures; and low memory
usage is achieved by using the iterator protocol and returning iterators
whenever possible.

``cytoolz`` implements the same API as ``toolz``. The main differences are
that ``cytoolz`` is faster (typically 2-5x faster with a few spectacular
exceptions) and "cytoolz" offers a C API that is accessible to other projects developed in Cython. Since "toolz" is able to process very large (potentially infinite) data sets, the performance increase gained by using "cytoolz" can be significant.


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Install
-------

``cytoolz`` is on the Python Package Index (PyPI):

```
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```

Dependencies
-------------

``cytoolz`` supports Python 2.6+ and Python 3.2+ with a common codebase. It is developed in Cython, but requires no dependencies other than CPython and a C compiler. Like "toolz", it is a lightweight dependency.

Contributions Welcome
---------------------

"toolz" (and "cytoolz") aims to be a repository for utility functions, particularly those that come from the functional programming and list processing traditions. We welcome contributions that fall within this scope and encourage users to scrape their "util.py" files for functions that are broadly useful.

Please take a look at our issue pages for
`toolz <https://github.com/pytoolz/toolz/issues>`__ and
`cytoolz <https://github.com/pytoolz/cytoolz/issues>`__ for contribution ideas.

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   :target: https://travis-ci.org/pytoolz/cytoolz

.. |Version Status| image:: https://pypip.in/v/cytoolz/badge.png
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Metadata-Version: 1.1
Name: cytoolz
Version: 0.8.0
Summary: Cython implementation of Toolz: High performance functional utilities
Home-page: https://github.com/pytoolz/cytoolz
Author: Erik Welch
Author-email: erik.n.welch@gmail.com
License: BSD
Description: CyToolz

``toolz`` is a pure Python package that borrows heavily from contemporary functional languages. It is designed to interoperate seamlessly with other libraries including ``itertools``, ``functools``, and third party libraries. High performance functional data analysis is possible with builtin types like ``list`` and ``dict``, and user-defined data structures; and low memory usage is achieved by using the iterator protocol and returning iterators whenever possible.

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Keywords: functional utility itertools funtools iterator generator curry memoize lazy streaming bigdata cython toolz
cytoolz
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Science/Research
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Classifier: Programming Language :: Python
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1.2106 libnl3 1.1.4-2.el6
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any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
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is quite different from the ordinary General Public License. We use
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
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General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it
becomes a de-facto standard. To achieve this, non-free programs must
be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

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programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
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system.
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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engineering for debugging such modifications.

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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the
Sections above.

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a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:
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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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is quite different from the ordinary General Public License. We use
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libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{Less} of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is \texttt{Less} protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
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To apply these terms, attach the following notices to the library. It is
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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
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introduced by others.

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Most GNU software, including some libraries, is covered by the
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this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.
We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
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Bundle-RequiredExecutionEnvironment: JavaSE-1.8
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1.2120 webrick 1.6.0

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1.2122 protobuf-java-format 1.4
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1.2124 sudo 1.8.6p3 29.el6_9

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began
This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Matt Ackeret
Mark Adler
Russ Allbery
Nick Andrew
Dimitry Andric
Danny Barron
Tom Bates
Zdenek Behan
Ray Bellis
Elias Benali
Jamie Beverly
Spider Boardman
Jakub Bogusz
P.J. Bostley
Keith Bowes
Keith Garry Boyce
Michael Brantley
Rob Braun
Pavel Brezina
Piete Brooks
Jerry Brown
Michael E Burr
Andreas Bussjaeger
Gary Calvin
Aaron Campbell
Milo Casagrande
Yuri Chornoivan
Vitezslav Cizek
Chris Coleman
Deven T. Corzine
Frank Cusack
Theo de Raadt
Francisco Dieguez
David Dill
Theo Van Dinter
Jeff Earickson
Drew Eckhardt
Ben Edgington
Marc Esipovich
Marc Espie
Ariel Faigon
Brian Farrell
Steve Fobes
Mike Frysinger
Jean-loup Gailly
Simon J. Gerraty
B. Guillory
Joe Hansen
Randy M. Hayman
Joachim Henke
YOSHIFUJI Hideaki
Dave Hieb
Nick Holloway
Adam Hoover
Michael T. Hunter
Eric Irrgang
Brian Jackson
Richard L. Jackson Jr
John R. Jackson
Mark Janssen
Chris Jepeway
Timo Juhani
Ayamura KIKUCHI
Kevin Kadow
Jorma Karvonen
Stepan Kasal
Mike Kienenberger
Dale King
Jim Knoble
Tim Knox
Alek O. Komarnitsky
Daniel Kopecek
Yuri Kozlov
Jakob Kramer
Paul Kranenburg
David Krause
Tomislav Krznar
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Case Larsen
Dmitry V. Levin
Kendall Libby
Phillip E. Lobbes
Jason McIntyre
David J. MacKenzie
Tom McLaughlin
Jeff Makey
Michael D. Marchionna
Algimantas Margevicius
Paul Markham
Emin Martinian
Pavel Maryanov
Michael Meskes
Todd C. Miller
Loïc Minier
Darren Moffat
Jan Thomas Moldung
Charles Morris
Andreas Mueller
Dworkin Muller
Jeff Nieusma
Peter A. Nikitser
Miroslav Nikolic
Ludwig Nussel
Daniel Nylander
Eric Paquet
Chantal Paradis
Ted Percival
Christian S.J. Peron
Alexander Peslyak
Toby Peterson
Diego Elio Petteno
Joel Pickett
Alex Plotnick
Tran Ngoc Quan
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Matt Richards
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Nick Sieger
Thor Lancelot Simon
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1.2143 makedev 3.24 6.el6

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 * Header File
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1.2151 jetty-http 9.2.15.v20160210

1.2152 mongo 2.14.0
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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
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28. [30]Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
validated HTML documents according to the HTML DTD

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- Stefan van der Walt
  Project coordination

- Nicolas Pinto
  Colour spaces and filters, and image resizing.
  Shape views: `util.shape.view_as_windows` and `util.shape.view_as_blocks`
  Montage helpers: `util.montage`.

- Damian Eads
  Morphological operators

- Mahipal Raythattha
  Documentation infrastructure

- S. Chris Colbert
  OpenCV wrappers, Scivi, Qt and Gtk gui bits, fast Hough transform,
  and much more.

- Holger Rapp
  OpenCV functions and better OSX library loader

- Ralf Gommers
  Image IO, color spaces, plots in documentation, cleaner API docs

- Helge Reikeras
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- Tony Yu
  Reading of paletted images; build, bug and doc fixes.
  Code to generate skimage logo.
  Otsu thresholding, histogram equalisation, template matching, and more.

- Zachary Pincus
  Tracing of low cost paths, FreeImage I/O plugin, iso-contours,
  and more.

- Almar Klein
  Binary heap class and other improvements for graph algorithms
  Lewiner variant of marching cubes algorithm

- Lee Kamentsky and Thouis Jones of the CellProfiler team, Broad Institute, MIT
  Constant time per pixel median filter, edge detectors, and more.
- Dan Farmer
  Incorporating CellProfiler's Canny edge detector, ctypes loader with Windows support.

- Pieter Holtzhausen
  Incorporating CellProfiler's Sobel edge detector, build and bug fixes.
  Radon transform, template matching.

- Emmanuelle Gouillart
  Total variation noise filtering, integration of CellProfiler's mathematical morphology tools, random walker segmentation, tutorials, and more.

- Mal Primet
  Total variation noise filtering

- Martin Bergholdt
  Fix missing math.h functions in Windows 7 + MSVCC.

- Neil Muller
  Numerous fixes, including those for Python 3 compatibility, QT image reading.

- The IPython team
  From whom we borrowed the github+web tools / style.

- Kyle Mandli
  CSV to ReST code for feature comparison table.

- The Scikit Learn team
  From whom we borrowed the example generation tools.

- Andreas Mueller
  Example data set loader. Nosetest compatibility functions.
  Quickshift image segmentation, Felzenszwalbs fast graph based segmentation.

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- Brian Holt
  Histograms of Oriented Gradients

- David-Warde Farley, Sturla Molden
  Bresenheim line drawing, from snippets on numpy-discussion.

- Christoph Gohlke
  Windows packaging and Python 3 compatibility.
- Neil Yager
Skeletonization and grey level co-occurrence matrices.

- Nelle Varoquaux
Renaming of the package to `skimage`.
Harris corner detector

- W. Randolph Franklin
Point in polygon test.

- Gal Varoquaux
Harris corner detector

- Nicolas Piolvert
Shape views: `util.shape.view_as_windows` and `util.shape.view_as_blocks`
Image resizing.

- Johannes Schnberger
Drawing functions, adaptive thresholding, regionprops, geometric
transformations, LBPs, polygon approximations, web layout, and more.

- Pavel Campr
Fixes and tests for Histograms of Oriented Gradients.

- Joshua Warner
Multichannel random walker segmentation, unified peak finder backend,
n-dimensional array padding, marching cubes, bug and doc fixes.

- Petter Strandmark
Perimeter calculation in regionprops.

- Olivier Debeir
Rank filters (8- and 16-bits) using sliding window.

- Luis Pedro Coelho
imread plugin

- Steven Silvester, Karel Zuiderveld
Adaptive Histogram Equalization

- Anders Boesen Lindbo Larsen
Dense DAISY feature description, circle perimeter drawing.

- Franjois Boulogne
Drawing: Andres Method for circle perimeter, ellipse perimeter,
Bezier curve, anti-aliasing.
Circular and elliptical Hough Transforms
Thresholding
Various fixes

- Thouis Jones
  Vectorized operators for arrays of 16-bit ints.

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  Color separation (color deconvolution) for several stainings.

- Jostein B Flystad
  Tomography: radon/iradon improvements and SART implementation
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- Matt Terry
  Color difference functions

- Eugene Dvoretsky
  Yen, Ridler-Calvard (ISODATA) threshold implementations.

- Riaan van den Dool
  skimage.io plugin: GDAL

- Fedor Morozov
  Drawing: Wu's anti-aliased circle

- Michael Hansen
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- Munther Gdeisat
  Phase unwrapping implementation

- Miguel Arevalillo Herraez
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- Hussein Abdul-Rahman
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- Francois Orieux
  Image deconvolution http://research.orieux.fr

- Vighnesh Birodkar
  Blob Detection

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  PIL Image import and export improvements

- Rebecca Murphy
  astronaut in examples

- Geoffrey French
  skimage.filters.rank.windowed_histogram and plot_windowed_histogram example.

- Alexey Umnov
  skimage.draw.ellipse bug fix and tests.

- Ivana Kajic
  Updated description and examples in documentation for gabor filters

- Matj T
  Extended the image labelling implementation so it also works on 3D images.

- Salvatore Scaramuzzino
  RectTool example

- Kevin Keraudren
  Fix and test for feature.peak_local_max

- Jeremy Metz
  Adaptation of ImageJ Autothresholder.Li, fixed Qhull error QH6228

- Mike Sarahan
  Sub-pixel shift registration

- Jim Fienup, Alexander Iacchetta
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  Alpha blending to convert from rgba to rgb

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  Niblack and Sauvola Local thresholding

- Scott Sievert
  Wavelet denoising
  threshold_li based on imagej code:

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AUTHOR
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RR 2, CP 406
Ste-Ccile-de-Masham (Qubec)
CANADA

========================================================================
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to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.2173 mpmath 0.19
1.2173.1 Available under license:
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1.2174 vim 7.4.160 6.el7_6
1.2174.1 Available under license:
*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY

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http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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      b) If you have received a modified Vim that was distributed as
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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is
also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is
visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

- Postbank, account 4548774
  - Swift code: INGB NL 2A
  - IBAN: NL95 INGB 0004 5487 74
  - under the name "stichting ICCF Holland", Lisse
    - If that doesn't work:
      - Rabobank Lisse, account 3765.05.117
      - Swift code: RABO NL 2U
      - under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:nol:
" Vim syntax file
" Language:Software Distributor product specification file
" *(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

if version < 600
" Remove any old syntax stuff hanging around
syn clear
elseif exists("b:current_syntax")
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend

Open Source Used In Secure Workload 3.6.1.1 26436


Define the default highlighting.
For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
  let did_psf_syntax_inits = 1
  command -nargs=+ HiLink hi link <args>
else
  command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject       Statement
HiLink psfAttrib       Type
Long descriptions and copyrights confuse the syntax highlighting, so force vim to backup at least 100 lines before the top visible line looking for a sync location.

```
syn sync lines=100
```

```
let b:current_syntax = "psf"
/*
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 *
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 */
```

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1.2175 gobject-introspection 1.42.0 1.el7

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1.2182 rails-html-sanitizer 1.3.0

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1.2183 lvm2 2.02.187-6.el7_9.5

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* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/WindowsTerminal.java
* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/console/package-info.java
* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/console/UserInterruptException.java
* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/package-info.java
* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/NoInterruptUnixTerminal.java
* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/console/Operation.java
* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/console/completer/Completer.java

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* /opt/cola/permits/1131259412_1612941558.14/0/jline-2-12-1-sources-3-jar/jline/console/KillRing.java

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Found in path(s):
* /opt/cola/permits/1156185825_1619141627.42/0/openpyxl-2-3-2-tar-gz/openpyxl-2.3.2/LICENCE.rst
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: openpyxl
Version: 2.3.2
Summary: A Python library to read/write Excel 2010 xlsx/xlsm files
Home-page: http://openpyxl.readthedocs.org
Author: See AUTHORS
Author-email: eric.gazoni@gmail.com
License: MIT/Expat
Description: openpyxl

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltm/xltm files.

It was born from lack of existing library to read/write natively from Python the Office Open XML format.

All kudos to the PHPExcel team as openpyxl is based on PHPExcel
http://www.phpeexcel.net/
Mailing List
=============

Official user list can be found on
http://groups.google.com/group/openpyxl-users

Sample code::

from openpyxl import Workbook
wb = Workbook()

# grab the active worksheet
ws = wb.active

# Data can be assigned directly to cells
ws['A1'] = 42

# Rows can also be appended
ws.append([1, 2, 3])

# Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

# Save the file
wb.save("sample.xlsx")

Official documentation
=======================

The documentation is at: http://openpyxl.readthedocs.org

* installation methods
* code examples
* instructions for contributing


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows
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Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Requires: python (>=2.6.0)

Found in path(s):
* /opt/cola/permits/1156185825_1619141627.42/0/openpyxl-2-3-2-tar-gz/openpyxl-2.3.2/PKG-INFO
* /opt/cola/permits/1156185825_1619141627.42/0/openpyxl-2-3-2-tar-gz/openpyxl-2.3.2/openpyxl.egg-info/PKG-INFO
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1.2205 cyrus-sasl 2.1.26 19.2.el7

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1.2206 spice 0.14.0 6.el7

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovent != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer
  combined, allow nicstar_free_rx_skb to be called to
  recycle large data buffers
  2) skb_clone of received buffers
  See nicstar_free_rx_skb and linearize_buffer for implementation
  details.

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*
* M. Welsh, 6 July 1996
*
*
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for the nxt2004 frontend driver

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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@end enumerate

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library.  (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library.  A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)
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Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

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+ trivial database library - standalone version

- trivial database library - private includes
- 
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The following article from James A. Woods, one of the earlier authors of compress, explains its relationship to the Unisys patent on the LZW compression method:

Article: 1282 of gnu.misc.discuss
From: jaw@riacs.edu (James A. Woods)
Newsgroups: gnu.misc.discuss
Subject: Sperry patent #4,558,302 does *not* affect 'compress'
Keywords: data compression, algorithm, patent
As a co-author of 'compress' who has had contact with an attorney for Unisys (nee Sperry), I would like to relay a very basic admission from Unisys that noncommercial use of 'compress' is perfectly legal. 'Compress' is also commercially distributed by AT&T as part of Unix System 5 release 4, with no further restrictions placed upon the use of the binary, as far as I am aware.

From conversations with Professor Abraham Lempel and others, it appears that neither AT&T, Sun Microsystems, Hewlett Packard, nor IBM are paying any sort of license fees to Unisys in conjunction with patent #4,558,302. It may be true that some organizations are paying fees for data compression technology licensed from one or more of the many holders of compression patents, but this is all independent from 'compress'.

In particular, I received a letter at NASA dated October 1, 1987 from John B. Sowell of the Unisys law department, informing me for the first time that some form of LZW was patented. I naturally expressed skepticism that an algorithm could be patented (a murky legal area which remains so), stated that 'compress' is not identical to LZW, and in fact was designed, developed, and distributed before the ink on the patent was dry. Several telephone conversations later, Mr. Sowell intimated that they would *not* seek any fees from users of 'compress' but instead were signing licensees for hardware implementations of LZW.

So, regardless of what you believe about a shady legal area, if anyone from Unisys contacts you to extract tribute for the use of 'compress', please tell them that, first, it is not theirs to begin with, and, second, there is someone who will testify in court about the conversation above. It is not even clear if anyone can "own" 'compress', since original developer Spencer Thomas, myself, and others placed the code in the public domain long before the adoption of the Berne copyright convention.

In light of the events above, it seems that the Free Software Foundation is being unduly paranoid about the use of 'compress'. Now I can well believe that FSF is more likely to be a legal target than a behemoth like AT&T, but if they are simply redistributing untouched free software developed years ago in the public sector, I see no problem.
Aside: I am investigating, possibly for a case history to be recycled to USENET, the particulars of data compression patents. I am aware of the following patents: IBM's Miller-Wegman LZ variant, those of Telcor and ACT [losing candidates for the British Telecom modem standard], James A. Storer's work on limited lookahead as explicated in his text "Data Compression (methods and theory)", Computer Science Press, 1988, and the various patents pending associated with the Fiala and Greene CACM article of April, 1989 on textual substitution methods. If you have any lore, send it this way.

Sincerely,

James A. Woods
NASA Ames Research Center (RIACS)
jaw@riacs.edu (or ames!jaw)

P.S. The algorithm patent issue certainly is a "topic A" at the moment. One useful reference is the review article by Anthony and Colwell -- "Litigating the Validity and Infringement of Software Patents" in Washington and Lee Law Review, volume 41, fall 1984. I know Robert Colwell personally. As a practicing patent attorney, he tells me that, at a minimum, use of an invention "for research purposes" is legitimate.

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* /opt/cola/permits/1106028753_1605247990.55/0/ncompress-4.2.4.4-3.1.el7_8.src.rpm-cosi-expand-archive-2XKPzVTH/ncompress-4.2.4.4.tar.gz-cosi-expand-archive-nAG6Hf9r/ncompress-4.2.4.4/LZW.INFO

1.2231 ncurses 5.9
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* /opt/ws_local/PERMITS_SQL/1005192575_1597127036.37/0/native-ref-java-1-1-sources-jar/com/github/fommil/netlib/NativeRefBLAS.java
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   (For example, a function in a library to compute square roots has...
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
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hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-
common/src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.2237 json-c 0.11 4.el7_0
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1.2238 elfutils 0.176-5.el7

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1.2239 idna 2.4

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---

```python
import io, sys
from setuptools import setup

version = "2.4"

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/ Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
        ]
    }
```

Open Source Used In Secure Workload 3.6.1.1 26911
setup(**arguments)

if __name__ == '__main__':
    main()

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License: BSD and Python and Unicode

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==========================================================================

/*
 */
* hmac.c is derived from:

Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
     UCSD
     R. Canetti
     IBM
     February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
==========================================================================

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote
Copy a local file to a remote Pod in a cluster.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>::<path>`\`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>::<path>`\`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces
Set the Pod namespace by prefixing the Pod name with `:<namespace>:`.

- `:<pod-namespace>:<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.2243 alabaster 0.7.8

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1.2244 consul-template 0.16.0 1.tet

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1.2252 python-prettytable 0.7.2-2.el7.centos

1.2252.1 Available under license :

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1.2253 openssl 1.0.1h

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
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and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a above, for a charge no more than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@enumerate a
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the Sections above.

@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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@end enumerate

@end iftex
@end ifinfo
@page
@end appendix

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@example
@example

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>year</td>
<td>2023</td>
</tr>
<tr>
<td>name of author</td>
<td>James Random Hacker</td>
</tr>
</tbody>
</table>

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@example
@example

Here is a sample; alter the names:

@example
@example

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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* Alice Bevan-McGregor
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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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Just configure this file as the SSLCACertificateFile.#

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $ License

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util/unlink.py

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backport frop python3 Lib/test/support.py

1.2275 druid-processing 0.10.0
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BSON library for Go

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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1.2318 xorg-x11-font-utils 7.5 21.el7

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.2324 dmidecode 3.1 2.el7
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1.2327 pathlib 2.3.5

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1.2329 pierrec-xxhash 0.1.4

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1.2333 libnfnetlink 1.0.1 4.el7

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1.2334 graphite 1.3.6 1.el7_2
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/HttpOutput.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/ClassLoaderDump.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/AsyncDelayHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/NegotiatingServerConnectionFactory.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/AbstractConnector.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/HandlerContainer.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/Connector.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/handler/ContextHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/handler/DefaultHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/Iso88591HttpWriter.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/session/AbstractSessionIdManager.java
Jar: org/eclipse/jetty/server/ResourceCache.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/handler/RequestLogHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/ServletResponseHttpWrapper.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/SecureRequestCustomizer.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/session/HashSessionIdManager.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/HttpChannel.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/UserIdentity.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/HttpInput.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/HttpTransport.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/CookieCutter.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/AsyncContextState.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/nio/NetworkTrafficSelectChannelConnector.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/handler/MovedContextHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/Dispatcher.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/NetworkConnector.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/AbstractNCSARequestLog.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/ByteBufferQueuedHttpInput.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/ConnectorStatistics.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/jmx/AbstractConnectorMBean.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/session/SessionHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/session/SessionHandler.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/handler/HandlerList.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/Authentication.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/ForwardedRequestCustomizer.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
jar/org/eclipse/jetty/server/LowResourceMonitor.java
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
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```java
/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
   * @param securePort the secure port to redirect to.
   */

/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
   * @param secureScheme A scheme string like "https"
   */
```

Found in path(s):
* /opt/cola/permits/1000760403_1608019408.35/0/jetty-server-9-2-15-v20160210-sources-1-
  jar/org/eclipse/jetty/server/HttpConfiguration.java

---

**1.2344 mime-types-data 3.2021.0225**

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```
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```

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bzip2/libbzip2 version 1.0.5 of 10 December 2007
1.2346 attr 1.1.0
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machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@end enumerate

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
@end enumerate

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you
offer spare parts or customer support for that product model, to give
anyone who possesses the object code either (1) a copy of the
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covered by this License, on a durable physical medium customarily used
for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of
the work are being offered to the general public at no charge under
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@end enumerate

A separable portion of the object code, whose source code is excluded
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@end enumerate

@end enumerate

@end enumerate

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@example
one line to give the program's name and a brief idea of what it does.

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@end example

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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w`. This is free software, and you are welcome to redistribute it under certain conditions; type `show c` for details.
@end example

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Version 2, June 1991

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.2354 device-mapper-multipath 0.4.9-134.el7_9

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.2356 jasper 1.900.1 29.el7

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1.2357 libguestfs 1.38.2-12.el7_6.2

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(* virt-sparsify
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*)

(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf

open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils

open Utils
open Cmdline

module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
    format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create
* temporary files (including the potentially massive overlay file), we
* need to catch SIGINT (^C) and exit cleanly so the temporary file
* goes away. Note that we don't delete temporaries in the signal
* handler.

let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* What should the output format be? If the user specified an
 * input format, use that, else detect it from the source image. *)
let output_format =
  match convert with
  | Some fmt -> fmt  (* user specified output conversion *)
  | None ->
    match format with
    | Some fmt -> fmt  (* user specified input format, use that *)
    | None ->
      (* Don't know, so we must autodetect. *)
      match (open_guestfs ())#disk_format indisk with
      | "unknown"->
        error (f_"cannot detect input disk format; use the --format parameter")
      | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
  match tmp_param with
  | None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub file 9 (String.length file - 9) in
    if not (Sys.file_exists file) then
      error (f_"--tmp prebuilt:file: %s: file does not exist") file;
    let g = open_guestfs () in
    if g#disk_format file <> "qcow2" then
      error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
    if not (g#disk_has_backing_file file) then
      error (f_"--tmp prebuilt:file: %s: file does not have backing file")
    file;
    Prebuilt_file file
  | Some path ->
    error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
(* Get virtual size of the input disk. *)
let virtual_size = (open_guestfs () # disk_virtual_size indisk in
  debug "input disk virtual size is %Ld bytes (%s)"
  virtual_size (human_size virtual_size);

let print_warning () =
  let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
  let extra_needed = virtual_size -^ free_space in
  if extra_needed > 0L then (;
    warning (f_"%
      There may not be enough free space on %s.
      You may need to set TMPDIR to point to a directory with more free space.

      Max needed: %s.  Free: %s.  May need another %s.

      Note this is an overestimate.  If the guest disk is full of data
      then not as much free space would be required.

      You can ignore this warning or change it to a hard failure using the
      --check-tmpdir=(ignore|continue|warn|fail) option.  See virt-sparsify(1).
%
    tmpdir (human_size virtual_size)
    (human_size free_space) (human_size extra_needed);
    true
  ) else false
in

match check_tmpdir with
| `Ignore -> ()
| `Continue -> ignore (print_warning ());
| `Warn ->
  if print_warning () then (;
    eprintf "Press RETURN to continue or ^C to quit.\n%s!";
    ignore (read_line ());
  );
| `Fail ->
  if print_warning () then (;
    eprintf "Exiting because --check-tmpdir=fail was set.\n%s!";
    exit 2
  );
);

(* Create the temporary overlay file. *)
let overlaydisk = (match tmp_place with
  | Directory tmpdir ->
message (f_"Create overlay file in %s to protect source disk") tmpdir
| Block_device device ->
message (f_"Create overlay device %s to protect source disk") device
| Prebuilt_file file ->
message (f_"Using prebuilt file %s as overlay") file
);

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
let g = open_guestfs () in
g#disk_create
~backingfile:indisk ?backingformat:format ~compat:"1.1"
   tmp "qcow2" Int64.minus_one
in
match tmp_place with
| Directory temp_dir ->
   let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
   unlink_on_exit tmp;
   create tmp;
   tmp
| Block_device device ->
   create device;
   device
| Prebuilt_file file ->
   (* Don't create anything, use the prebuilt file as overlay. *)
   file in
message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
let g = open_guestfs () in

(* Note that the temporary overlay disk is always qcow2 format. *)
g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
g#launch ();
g in

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
g#user_cancel ();
exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount, *
 * and selected swap partitions. *)

let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_readonly Lv = is_readonly_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false
  in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux’ GNU libc. *)
  flags <> -1_L && (flags ^& 0x1_L) <> 0_L
  in

List.iter (fun fs ->
  if not (is_ignored fs) && not (is_readonly Lv fs) then (if List.mem fs zeroes then (}
message (f_"Zeroing %s") fs;

g#zero_device fs
) else ( let mounted = try g#mount fs "/"; true with _ -> false in if mounted then ( if is_readonly_btrfs_snapshot fs "/" then ( info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs; ) else if is_readonly_device "/" then ( info (f_"Skipping %s, as it is a read-only device.") fs; ) else ( message (f_"Fill free space in %s with zero") fs; g#zero_free_space "/" ) )
) else ( let is_linux_x86_swap = (* Look for the signature for Linux swap on i386. * Location depends on page size, so it definitely won't * work on non-x86 architectures (eg. on PPC, page size is * 64K). Also this avoids hibernated swap space: in those, * the signature is moved to a different location. *) try g#pread_device fs 10 4086L = "SWAPSPACE2" with _ -> false in if is_linux_x86_swap then ( message (f_"Clearing Linux swap on %s") fs;

(* Don't use mkswap. Just preserve the header containing * the label, UUID and swap format version (libguestfs * mkswap may differ from guest's own). *)

let header = g#pread_device fs 4096 0L in g#zero_device fs;
if g#pwrite_device fs header 0L <> 4096 then error (f_"pwrite: short write restoring swap partition header")
)
)
);

g#umount_all ()
)
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (fun vg ->
  if not (List.mem vg ignores) then (let lvname = String.random8 () in
    let lvdev = "/dev/" ^ vg ^ "f" ^ lvname in

    let created =
      try g#lvcreate_free lvname vg 100; true
      with _ -> false in

    if created then (message (f_"Fill free space in volgroup %s with zero") vg;

      g#zero_device lvdev;
      g#sync ();
      g#lvremove lvdev)
  )
)
)

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigit _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigit);

(* Now run qemu-img convert which copies the overlay to the *
* destination and automatically does sparsification. *)
message ("Copy to destination and make sparse");

let cmd =
sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
  (quote output_format)
  (if compress then " -c" else "")
  (match option with
   | None -> ""
   | Some option -> " -o " ^ quote option)
  (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
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*)

(** This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string option -> string option -> string list -> unit
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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}

hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
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1.2379 ghostscript 9.25-5.el7

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5917614 Method and apparatus for error diffusion screening of images with improved smoothness in highlight and shadow regions
1.2380 python-pygments 1.4 9.el7

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```python
(lp1 (ccopy_reg 
    _reconstructor 
    p2 (cpygments.token 
        _TokenType 
        p3 c__builtin__
        tuple 
        p4 (S'Text'
        p5 ttRp6
        (dp7 S'subtypes'
        p8 c__builtin__
        set 
        p9 ((lp10 g2 
            (g3 
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            g5 S'Symbol'
            p11 ttRp12 
            (dp13 g8 
            g9 ((ltRp14 s'S'parent' 
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            g5 S'Whitespace'
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g2
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'SIndicator'
p215
ttRp216
dp217
g8
g9
((ltRp218
sg15
g212
sbatRp219
sg215
g216
sg15
g21
sbs'SToken'
p220
g21
s'SNumber'
p221
g2
(g3
(g4
'SLiteral'
p222
g221
(ttRp223
dp224
'SBin'
p225
g2
(g3
(g4
(g222
g221
g225
V# New ports collection makefile for: python25
V# Date created: 3 July 2003
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>
Open Source Used In Secure Workload 3.6.1.1  28272
Open Source Used In Secure Workload

3.6.1.1

28275

python@FreeBSD.org

Vpython@FreeBSD.org

Vinterpreted

Vobject-oriented

Vprogramming
a(g138
V)

a(g6
V/portbld.static

a(g6
V\u000a

a(g100
VPATCH_WRKSRC

a(g353
V=

a(g6
V

a(g138
V$

a(g100
VPYTHON_WRKSRC

a(g138
V$

a(g6
V\u000a

a(g100
VGNU_CONFIGURE

a(g353
V=

a(g6
V

a(g6
Vyes

V
tp499
afg6
V\u0000a
tp500
afg100
VCONFIGURE_TARGET
p501
tp502
afg353
V=
tp503
afg6
V
tp504
afg6
V--build
p505
tp506
afg353
V=
tp507
afg138
V$\

p508
tp509
afg100
VMACHINE_ARCH
p510
tp511
afg138
V}
tp512
afg6
V-portblnd-freebsd
p513
tp514
afg138
V$\
p515
tp516
afg100
VOSREL
p517
tp518
afg138
V}
tp519
afg6
V/u000a
atg100
VCONFIGURE_SCRIPT
p521
tp522
atg353
V=
tp523
atg6
V
tp524
atg6
V../configure
p525
tp526
atg6
V
tp527
atg24
V# must be relative\u000a
p528
tp529
atg100
VCONFIGURE_ENV
p530
tp531
atg353
V=
tp532
atg6
V
tp533
atg100
VOPT
p534
tp535
atg353
V=
tp536
atg255
V"${CFLAGS}"
VSVNVERSION
p540
tp541
atg353
V=
tp542
atg255
V"echo freebsd"
p543
tp544
atg6
V\u0000a
 tp545
atg100
VMAKE_ENV
p546
tp547
atg353
V=
tp548
atg6
V
tp549
atg100
VVPATH
p550
tp551
atg353
V=
tp552
atg255
V"${PYTHON_WRK_SRC}"
p553
tp554
atg6
V\u0000a
 tp555
atg100
VINSTALLS_SHLlib
p556
tp557
atg353
V=
tp558
atg6
V
tp559
atg6
Vyes
p560
tp561
a(g6
V\u0000a
tp562
a(g100
VINSTALL_TARGET
p563
tp564
a(g353
V=
tp565
a(g6
V
p566
a(g6
Valtinstall
p567
tp568
a(g6
V\u0000a
tp569
a(g100
VMAN1
p570
tp571
a(g353
V=
tp572
a(g6
V
p573
tp574
a(g138
V$

p575
tp576
a(g100
VPYTHON_VERSION
p577
tp578
a(g138
V}
tp579
a(g6
V.1
p580
VUSE_PYTHON
V=python2.5
V

VPYTHON_VERSION
V=python2.5
V

VPYTHON_NO_DEPENDS
V
a(g6
V/share/examples/
p685
tp686
a(g138
V$\{
p687
tp688
a(g100
VPYTHON_VERSION
p689
tp690
a(g138
V}
tp691
a(g6
V\ut000a
tp692
a(g100
VTOOLSDIR
p693
tp694
a(g353
V=
tp695
a(g6
V
tp696
a(g138
V$\{
p697
tp698
a(g100
VPREFIX
p699
tp700
a(g138
V}
tp701
a(g6
V/share/
p702
tp703
a(g138
V$\{
p704
tp705
a(g100

---

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VPYTHON_VERSION
p706
tp707
at(g138
V)
tp708
at(g6
V\u000a\u000a
p709
tp710
at(g100
VBIN_SCRIPTS
p711
tp712
at(g353
V=
tp713
at(g6
V
tp714
at(g6
Vidle
p715
tp716
at(g6
V
tp717
at(g6
Vpydoc
p718
tp719
at(g6
V
tp720
at(g6
Vpython
p721
tp722
at(g6
V
tp723
at(g6
Vpython-shared
p724
tp725
at(g6
V
tp726
Vsmtpd.py

Vpython-config

Vpython-shared-config

\"s,smtpd,smtpd\${PYTHON_VER},\"
V's,(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'

V= Enable thread support

V"Enable thread support"
Use UCS4 for unicode support

Use python's internal malloc

Open Source Used In Secure Workload 3.6.1.1  28292
Enable IPv6 support

Enable floating point exception handling
V
\include <bsd.port.pre.mk>

V\ if \${PYTHON_VERSION} == \${PYTHON_DEFAULT_VERSION}\n
VMLINKS

V\${PYTHON_VERSION}
p875
p876
\a(g353
V=
\p877
\a(g6
V
\p878
\a(g100
\VIF_DEFAULT
p879
\p880
\a(g353
V=
\p881
\a(g255
\V"@comment "
\p882
\p883
\a(g6
V\u0000a
\p884
\a(g27
V.end\endif\u0000a
\p885
\p886
\a(g6
V\u0000a
\p887
\a(g24
\V# workaround for a bug in base curses.h\u0000a
\p888
\p889
\a(g6
V
\p890
\a(g6
VCFLAGS+
\p891
\p892
\a(g353
V=
\p893
\a(g6
V
\p894
\a(g6
\V-D__wchar_t


V wchar_t
V
V if !defined(WITHOUT_THREADS)
V
V
V
V
V
V--with-threads
V
V
V
V
V
V
V
V
V
V
V
V
V
V$PTHREAD_CFLAGS

if defined(WITHOUT_HUGE_STACK_SIZE)

VCFLAGS+

-DTHREAD_STACK_SIZE

V=0x20000

V.else
VCFLAGS+
P940
P941
V=0x100000
V-DTHREAD_STACK_SIZE
P945
P946
V=0x000a
V=0x100000
V-VCONFIGURE_ENV+
P951
P952
V=0x000a
VP954
P955
V=0x100000
VP957
a(g100
VLDFLAGS
p959
tp960
a(g353
V=
tp961
a(g255
V"${PTHREAD_LIBS} ${LDFLAGS}" 
p962
tp963
a(g6
V\u000a
tp964
a(g27
V.else\u000a
p965
tp966
a(g6
V
 tp967
a(g6
VCONFIGURE_ARGS+
p968
tp969
a(g353
V=
tp970
a(g6
V
 tp971
a(g6
V--without-threads
p972
tp973
a(g6
V\u000a
tp974
a(g27
V.if defined(LDFLAGS)\u000a
p975
tp976
a(g6
V
 tp977
a(g6
VCONFIGURE_ENV+
p978
Open Source Used In Secure Workload 3.6.1.1  28301

```c

V=tp980
V=tp981
V=tp982
VLDFLAGS
V="$[LDFLAGS]"
V\u000a
V\u000a
V.endif # defined(LDFLAGS)\u000a
V.endif # !defined(WITHOUT_THREADS)\u000a
V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\u000a
VCONFIGURE_ARGS+
```

---
if ${ARCH} == i386
V
VPLIST_SUB+
V
VX86_ONLY
V
V
V
V
if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha
endif

VLIST_SUB+

V

V

V

V

V
tp1061
afg100
V32BIT_ONLY
p1062
tp1063
afg353
V=
tp1064
afg255
V"@comment "
p1065
tp1066
afg6
V\u000a

p1067
afg27
V.else\u000a
p1068
tp1069
afg6
V

tp1070
afg6
VPLIST_SUB+
p1071
tp1072
afg353
V=

p1073
afg6
V

p1074
tp1075
afg100
V32BIT_ONLY

p1076
tp1077
afg353
V=

p1078
afg255
V"

p1079
tp1080
afg6
V\u000a

p1081
afg27
V.endif

if ${ARCH} == sparc64

VCFLAGS+ =

V-DPYTHON_DEFAULT_RECURSION_LIMIT

if !exists(/usr/bin/ypcat) # the world with NO_NIS

V.endif

if !exists(/usr/bin/ypcat) # the world with NO_NIS
tp1103
a(g6
V
tp1104
a(g6
VPLIST_SUB+
p1105
tp1106
a(g353
V=
tp1107
a(g6
V
tp1108
a(g100
VNO_NIS
p1109
tp1110
a(g353
V=
tp1111
a(g255
V"@comment "
p1112
tp1113
a(g6
V\u000a
p1114
a(g27
V.else\u000a
p1115
tp1116
a(g6
V
tp1117
a(g6
VPLIST_SUB+
p1118
tp1119
a(g353
V=
tp1120
a(g6
V
tp1121
a(g100
VNO_NIS
p1122
Open Source Used In Secure Workload 3.6.1.1  28308
tp1143
a(g6
VCONFIGURE_ARGS+
p1144
tp1145
a(g353
V=
tp1146
a(g6
V
tp1147
a(g6
V--disable-ipv6
p1148
tp1149
a(g6
V\u000a
tp1150
a(g27
V.endif\u000a
p1151
tp1152
a(g6
V\u000a
tp1153
a(g27
V.if defined(WITH_FPECTL)\u000a
p1154
tp1155
a(g6
V
tp1156
a(g6
VCONFIGURE_ARGS+
p1157
tp1158
a(g353
V=
tp1159
a(g6
V
tp1160
a(g6
V--with-fpectl
p1161
tp1162
a(g6
V\u000a
tp1163
a(g27
V.endif\u000a
tp1164
tp1165
a(g6
V\u000a
tp1166
a(g27
V.if ${OSVERSION} >= 700000\u000a

tp1167
tp1168
a(g6
V

tp1169
a(g100
VPLATFORMS


tp1170
tp1171
a(g353
V=

tp1172
a(g6
Vplat-freebsd4


tp1173
tp1174
a(g6
V

tp1175
a(g6
Vplat-freebsd5


tp1176
tp1177
a(g6
V

tp1178
a(g6
Vplat-freebsd6


tp1179
tp1180
a(g6
V\u000a
tp1181
a(g27
V.elif ${OSVERSION} >= 600000\u000a

tp1182
tp1183
a(g6
tp1247
a(g6
V
tp1248
a(g281
V's,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1249
tp1250
a(g6
V
tp1251
a(g262
V\u005c\u000a
p1252
tp1253
a(g6
V
p1254
tp1255
a(g138
V${
p1256
tp1257
a(g100
VPATCH_WRKSRC
p1258
tp1259
a(g138
V}
tp1260
a(g6
V/Tools/scripts/pydoc
p1261
tp1262
a(g6
V
tp1263
a(g6
V$
tp1264
a(g6
V
tp1265
a(g138
V${
p1266
tp1267
a(g100

Open Source Used In Secure Workload 3.6.1.1  28314
Open Source Used In Secure Workload 3.6.1.1  28316

p1289
 tp1290
 a\(g138
 V\}
p1291
 tp1292
 a\(g100
 VPATCH_WRKSRC
 p1293
 tp1294
 a\(g138
 V\}
 tp1295
 a\(g6
 V/Tools/scripts/idle
 p1296
 tp1297
 a\(g6
 V
 tp1298
 a\(g6
 V>
 tp1299
 a\(g6
 V
 tp1300
 a\(g138
 V\}
p1301
 tp1302
 a\(g100
 VWRKDIR
 p1303
 tp1304
 a\(g138
 V\}
 tp1305
 a\(g6
 V/idle2.5
 p1306
 tp1307
 a\(g6
 V/u0000a
 p1308
 tp1309
 a\(g138
 V\}
 p1310
Open Source Used In Secure Workload 3.6.1.1 28317

```
V'ls,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1319
tp1320
atg6
V
tp1321
atg262
V\u005c\u000a
p1322
tp1323
atg6
V
p1324
tp1325
atg138
V$}
p1326
tp1327
atg100
VPATCH_WRKSRC
p1328
tp1329
atg138
V}
tp1330
atg6
V/Lib/smtpd.py
p1331
tp1332
```
V’s./usr/doc/python-docs-$\{\text{PREFIX}\}/share/doc/python,g'

V/Lib/pydoc.py
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V's|\(\text{INSTALL\_SCRIPT}\).python-config$$|\text{#port }\text{\textasciicircum}u005c1|\]

p1445
tp1446
a\(g6\)
V
p1447
a\(g262\)
V\(\text{\textasciicircum}u005c\text{\textasciicircum}u000a\)
p1448
tp1449
a\(g6\)
V
p1450
tp1451
a\(g138\)
V$\{\}
p1452
tp1453
a\(g100\)
VPATCH WRKSRCP1454
tp1455
a\(g138\)
V$

V Makefile.pre.in
p1457
tp1458
a\(g6\)
V\(\text{\textasciicircum}u000a\text{\textasciicircum}u000a\)
p1459
tp1460
a\(g138\)
V$
p1461
tp1462
a\(g100\)
VSED
p1463
tp1464
a(g138
V]
tp1465
a(g6
V
tp1466
a(g6
V-e
p1467
tp1468
a(g6
V
tp1469
a(g281
V's|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}]'
p1470
tp1471
a(g6
V
tp1472
a(g262
V\u005c\u000a
p1473
tp1474
a(g6
V
p1475
tp1476
a(g138
V${
p1477
tp1478
a(g100
VPATCH_WRKSRCP1479
tp1480
a(g138
V]
tp1481
a(g6
V/Misc/python-config.in
p1482
tp1483
a(g6
V
tp1484
a(g6
V>
tp1485
a[g6
V
tp1486
a[g138
V$
}
tp1487
tp1488
a[g100
VWRKDIR
}
tp1489
tp1490
a[g138
V
}
tp1491
a[g6
V/
tp1492
a[g138
V$
}
tp1493
tp1494
a[g100
VPYTHON_VERSION
}
tp1495
tp1496
a[g138
V
}
tp1497
a[g6
V-config
}
tp1498
tp1499
a[g6
V\u000a
}
tp1500
tp1501
a[g138
V$
}
tp1502
tp1503
a[g100
VSED
}
tp1504
tp1505
a[g138
V
}
tp1506
VWS/

VWS{

VWRKDIR

VPYTHON_VERSION

V:thon/thon-shared/

V-config

V/uto000a\uto000a

V:if defined(WITH_FPECTL) && ${ARCH} == i386\uto000a

V
ap5
V"fpectl fpectlmodule.c"
p1571
ap5
V
ap6
V
ap5
ap6
V
ap5
ap6
V
ap5
ap6
ap100
VWRKSRCP1579
tp1580
ap6
V}	p1581
ap6
V/Modules/Setup.dist
p1582
tp1583
ap6
\u000a
p1584
ap27
V.endif\u000a
p1585
tp1586
ap6
\u000a
p1587
ap6
Vpost-configure:
p1588
tp1589
ap6
\u000a
p1590
p1651
p1652
a(g6
V
p1653
a(g138
V$\{p1654
p1655
a(g100
VWRKSRC
p1656
tp1657
a(g138
V$\}

\text{tp1658}
a(g6
V/Lib
p1659
tp1660
a(g6
V\text{wu000a}

\text{p1661}
tp1662
a(g138
V$\}{p1663
tp1664
a(g100
VSED
p1665
tp1666
a(g138
V$\}

\text{tp1667}
a(g6
V
\text{tp1668}
a(g6
V-e
\text{p1669}
tp1670
a(g6
V
\text{tp1671}
a(g281
V's,\text{LDLIBRARY=\text{wu005c}.}^*$\text{\textsc{wu005c}1libpython$\text{($\text{VERSION}$).so}},$

\text{p1672}
Open Source Used In Secure Workload 3.6.1.1  28334
a(g6
V
p1717
tp1718
a(g6
V-e
p1719
tp1720
a(g6
V
tp1721
a(g281
V's,^\u005c(.(BUILD PYTHON):.*\u005c).(LIBRARY).\u005c1.'
p1722
tp1723
a(g6
V
tp1724
a(g262
V\u005c\u000a
p1725
tp1726
a(g6
V
p1727
tp1728
a(g138
V$\}
p1729
tp1730
a(g100
VWRKSRC
p1731
tp1732
a(g138
V}
tp1733
a(g6
V/Makefile
p1734
tp1735
a(g6
V
tp1736
a(g6
V>
tp1737
a(g6

Open Source Used In Secure Workload 3.6.1.1  28336
V
a\(g\)138
V$\$

tp1739
tp1740
a\(g\)100
VSHARED_WRKSRCP1741
tp1742
a\(g\)138
V}
tp1743
a\(g\)6
V/Makefile

tp1744
tp1745
a\(g\)6
V\(\text{\textbackslash u000a}\)\(\text{\textbackslash u000a}\)

tp1746
tp1747
a\(g\)6
Vpre-build:

tp1748
tp1749
a\(g\)6
V\(\text{\textbackslash u000a}\)

tp1750
tp1751
a\(g\)84
Vcd

tp1752
tp1753
a\(g\)6
V

tp1754
a\(g\)138
V$\$

tp1755
tp1756
a\(g\)100
VSHARED_WRKSRCP1757
tp1758
a\(g\)138
V}
tp1759
a\(g\)6
p1843
tp1844
atg100
VPYTHON_VERSION
p1845
tp1846
atg212
V:
tp1847
atg100
VS
tp1848
atg212
V/thon/thon-shared/

p1849
tp1850
atg138
V}
tp1851
atg6
V\u000a\u000a

p1852
tp1853
atg6
Vpre-su-install:

p1854
tp1855
atg6
V\u000a

p1856
tp1857
atg27
V for platform in ${PLATFORMS}\u000a

p1858
tp1859
atg6
V

p1860
tp1861
atg100
VMKDIR

p1862
tp1863
atg138
V)
tp1864
VPYTHONPREFIX_LIBDIR

V

for file in IN.py regen

V

V

V

V

V
```
V'\r
\t\r
p1947
\t\r
a(g100
\tVAWK
p1949
\t\r
tp1950
\t\r
a(g138
\tV)}
\t\r
tp1951
\t\r
a(g6
\tV
\t\r
tp1952
\t\r
a(g281
\t\r
V' \r
\t\r
p1947
\t\r
a(g100
\tVAWK
p1949
\t\r
tp1950
\t\r
a(g138
\tV)}
\t\r
tp1951
\t\r
a(g6
\tV
\t\r
tp1952
\t\r
a(g281

if openssl 0.9.8 is detected, _sha{256,512} module won't be installed
```


\r
\t\r
p1953
\t\r
tp1954
\t\r
a(g6
\tV
\t\r
tp1955
\t\r
a(g6
\tV>
\t\r
tp1956
\t\r
a(g6
\tV
\t\r
tp1957
\t\r
a(g138
\tV$\}
\t\r
tp1958
\t\r
tp1959
\t\r
a(g100
\tVPLIST
p1960
\t\r
tp1961
\t\r
a(g138
\tV)}
\t\r
tp1962
\t\r
a(g6
\tV\u000a\u000a
\t\r
p1963
\t\r
tp1964
\t\r
a(g24
\tV@## if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\u000a
\t\r
p1965
\t\r
tp1966
\t\r
a(g6
\tV
\t\r
tp1967
\t\r
a(g353
```
V( 
  tp1968 
  a\(g\)353 
  V[ 
  tp1969 
  a\(g\)6 
  V 
  tp1970 
  a\(g\)6 
  V-f 
  p1971 
  tp1972 
  a\(g\)6 
  V 
  tp1973 
  a\(g\)138 
  VS\} 
  p1974 
  tp1975 
  a\(g\)100 
  VWRKSRC 
  p1976 
  tp1977 
  a\(g\)138 
  V\} 
  tp1978 
  a\(g\)6 
  V/\without\_\own\_sha 
  p1979 
  tp1980 
  a\(g\)6 
  V 
  tp1981 
  a\(g\)353 
  V\} 
  tp1982 
  a\(g\)6 
  V 
  tp1983 
  a\(g\)353 
  V&& 
  p1984 
  tp1985 
  a\(g\)6 
  V 
  tp1986 
  a\(g\)262 
  \"ut005c\"ut000a
Open Source Used In Secure Workload
post-install:

@# install config providers

VINSTALL_SCRIPT
a[g138
V$\{
p2071
tp2072
a[g100
VWRKDIR
p2073
tp2074
a[g138
V}
tp2075
a[g6
V/
tp2076
a[g138
V$\{
p2077
tp2078
a[g100
VPYTHON_VERSION
p2079
tp2080
a[g138
V}
tp2081
a[g6
V-config
p2082
tp2083
a[g6
V
tp2084
a[g138
V$\{
p2085
tp2086
a[g100
VPREFIX
p2087
tp2088
a[g138
V}
tp2089
a[g6
V/bin
p2090
tp2091
a[g6
V\u000a
p2092
tp2093
atg138
V${

p2094
tp2095
atg100
VINSTALL_SCRIPT
p2096
tp2097
atg138
V} tp2098
atg6
V

p2099
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p2100
tp2101
atg100
WWRKDIR
p2102
tp2103
atg138
V} tp2104
atg6
V/

p2105
atg138
V${

p2106
tp2107
atg100
VPYTHON_VERSION
p2108
tp2109
atg212
V:

p2110
atg100
V$

tp2111
atg212
V\thon/\thon-shared/
p2112
Open Source Used In Secure Workload 3.6.1.1
VINSTALL_SCRIPT

# additional files installing by ports

VINSTALL_SCRIPT

# additional files installing by ports

VINSTALL_SCRIPT

# additional files installing by ports

VINSTALL_SCRIPT
V if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}
for
 Vin
 ${{VBIN_SCRIPTS}}
} 
} 
} 
} 
$ {V}

Open Source Used In Secure Workload 3.6.1.1  28367
Vdo
p2394
tp2395
atg6
V
tp2396
atg262
\u005cv\u000cu005cv000a
p2397
tp2398
atg6
V
p2399
tp2400
atg100
VTARGET
p2401
tp2402
atg353
V=
 tp2403
atg274
V`
 tp2404
atg138
V${$
 p2405
tp2406
atg100
VECHO_CMD
p2407
tp2408
atg138
V$
 tp2409
atg6
V
 tp2410
atg100
V$$
p2411
tp2412
atg6
Vf
 tp2413
atg6
V
 tp2414
a(g27
V.endif\u000a
p2477
tp2478
a(g6
V\u000a
tp2479
a(g27
V.if !defined(NOPORTDOCS)\u000a
p2480
tp2481
a(g6
V
tp2482
a(g6
V@
tp2483
a(g138
VS{
p2484
tp2485
a(g100
VMKDIR
p2486
tp2487
a(g138
V}
tp2488
a(g6
V
tp2489
a(g138
VS{
p2490
tp2491
a(g100
VTOOLSDIR
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tp2493
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#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;  
bc_num _one_;  
bc_num _two_;  

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }  
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = (char *) malloc (length+scale);
if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
frees the storage if reference count is zero. */

void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if (((*num)->n_refs == 0) {
        if (((*num)->n_ptr)
            free (((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

/* Initialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_  = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_  = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}
/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
   bc_num *num;
{
   *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
_bc_rm_leading_zeros just moves the data "value" pointer to the
correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
   bc_num num;
{
   /* We can move n_value to point to the first non zero digit! */
   while (*num->n_value == 0 && num->n_len > 1) {
      num->n_value++;
      num->n_len--;
   }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
   bc_num n1, n2;
   int use_sign;
   int ignore_last;
{
   char *n1ptr, *n2ptr;
   int count;

   /* First, compare signs. */
   if (use_sign && n1->n_sign != n2->n_sign)
   {
      if (n1->n_sign == PLUS)
         return (1); /* Positive N1 > Negative N2 */
      else
         return (-1); /* Negative N1 < Positive N1 */
   }
/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;
while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
    }
if (!use_sign || n1->n_sign == PLUS)
    return (-1);
else
    return (1);
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
        
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
        
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* They must be equal! */
return (0);

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
{
    int scale;
    int count;
    char *nptr;
/* Error checking */
if (scale > num->n_scale)
  scale = num->n_scale;

/* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;
if (count != 0 && (count != 1 || *--nptr != 1))
  return FALSE;
else
  return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
  bc_num n1, n2;
  int scale_min;
{
  bc_num sum;
  int sum_scale, sum_digits;
  char *n1ptr, *n2ptr, *sumptr;
  int carry, n1bytes, n2bytes;
  int count;

  /* Prepare sum. */
  sum_scale = MAX (n1->n_scale, n2->n_scale);
  sum_digits = MAX (n1->n_len, n2->n_len) + 1;
  sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

  /* Zero extra digits made by scale_min. */
  if (scale_min > sum_scale)
    {
      sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
      for (count = scale_min - sum_scale; count > 0; count--)
        *sumptr++ = 0;
    }

  /* Start with the fraction part. Initialize the pointers. */
  n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction. */
if (n1bytes != n2bytes)
    {
        if (n1bytes > n2bytes)
            while (n1bytes > n2bytes)
                { *sumptr-- = *n1ptr--; n1bytes--; }
        else
            while (n2bytes > n1bytes)
                { *sumptr-- = *n2ptr--; n2bytes--; }
    }

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
    {
        *sumptr = *n1ptr-- + *n2ptr-- + carry;
        if (*sumptr > (BASE-1))
            {
                carry = 1;
                *sumptr -= BASE;
            }
        else
            carry = 0;
        sumptr--;
        n1bytes--;
        n2bytes--;
    }

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; } 
while (n1bytes-- > 0)
    {
        *sumptr = *n1ptr-- + carry;
        if (*sumptr > (BASE-1))
            {
                carry = 1;
                *sumptr -= BASE;
            }
        else
            carry = 0;
/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;

/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */

static bc_num _bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

    /* Allocate temporary storage. */
    diff_len = MAX (n1->n_len, n2->n_len);
    diff_scale = MAX (n1->n_scale, n2->n_scale);
    min_len = MIN  (n1->n_len, n2->n_len);
    min_scale = MIN (n1->n_scale, n2->n_scale);
    diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > diff_scale)
    {
        diffptr = (char *) (diff->n_value + diff_len + diff_scale);
        for (count = scale_min - diff_scale; count > 0; count--)
            *diffptr++ = 0;
    }

    /* Initialize the subtract. */
    n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
    diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);
/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
  
  /* n1 has the longer scale */
  for (count = n1->n_scale - min_scale; count > 0; count--)
    *
diffptr-- = *n1ptr--;
  }
else
{
  /* n2 has the longer scale */
  for (count = n2->n_scale - min_scale; count > 0; count--)
    {
      val = - *n2ptr-- - borrow;
      if (val < 0)
        {
          val += BASE;
          borrow = 1;
        }
      else
        borrow = 0;
      *diffptr-- = val;
    }
  }

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
  {
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
      {
        val += BASE;
        borrow = 1;
      }
    else
      borrow = 0;
    *diffptr-- = val;
  }

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
  
  for (count = diff_len - min_len; count > 0; count--)
    


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val = *n1ptr--; borrow;
if (val < 0)
{
    val += BASE;
    borrow = 1;
}
else
    borrow = 0;
*diffptr-- = val;
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
    else
    
    {
        /* subtraction must be done. */
        /* Compare magnitudes. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            diff = _bc_do_sub (n2, n1, scale_min);
            diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
            break;
case 0:
/* They are equal! return zero! */
res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
diff = bc_new_num (1, res_scale);
memset (diff->n_value, 0, res_scale+1);
break;
case 1:
/* n2 is less than n1, subtract n2 from n1. */
diff = _bc_do_sub (n1, n2, scale_min);
diff->n_sign = n1->n_sign;
break;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers. */
N1 is added to N2 and the result placed into RESULT. SCALE_MIN is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
bc_num n1, n2, *result;
int scale_min;
{
bc_num sum = NULL;
int cmp_res;
int res_scale;

if (n1->n_sign == n2->n_sign)
{
sum = _bc_do_add (n1, n2, scale_min);
sum->n_sign = n1->n_sign;
}
else
{
/* subtraction must be done. */
cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
switch (cmp_res)
{
case -1:
/* n1 is less than n2, subtract n1 from n2. */
sum = _bc_do_sub (n2, n1, scale_min);
sum->n_sign = n2->n_sign;
}
break;
case 0:
    /* They are equal! return zero with the correct scale! */
    res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
    sum = bc_new_num (1, res_scale);
    memset (sum->n_value, 0, res_scale+1);
    break;
case 1:
    /* n2 is less than n1, subtract n2 from n1. */
    sum = _bc_do_sub (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
    }
    }

/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;

temp->n_refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
    int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
    {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
        sum = sum / BASE;
    }
    *pvptr = sum;
}

/* A special adder/subtractor for the recursive divide and conquer
   multiply algorithm. Note: if sub is called, accum must
   be larger that what is being subtracted. Also, accum and val
   must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
if (val->n_value[0] == 0)
    count--;
assert (accum->n_len+accum->n_scale >= shift+count);

/* Set up pointers and others */
accp = (signed char *)(accum->n_value +
accum->n_len + accum->n_scale - shift - 1);
valp = (signed char *)(val->n_value + val->n_len - 1);
carry = 0;

if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
        *accp -= *valp-- + carry;
        if (*accp < 0) {
            carry = 1;
            *accp-- += BASE;
        } else {
            carry = 0;
        }
    }
    while (carry) {
        *accp -= carry;
        if (*accp < 0)
            *accp-- += BASE;
        else
            carry = 0;
    }
} else {
    /* Addition */
    while (count--) {
        *accp += *valp-- + carry;
        if (*accp > (BASE-1)) {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
        }
    }
    while (carry) {
        *accp += carry;
        if (*accp > (BASE-1))
            *accp-- -= BASE;
        else
            carry = 0;
    }
}
/* Recursive divide and conquer multiply algorithm.
Based on
Let u = u0 + u1*(b^n)
Let v = v0 + v1*(b^n)
Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

B is the base of storage, number of digits in u1,u0 close to equal.
*/

static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
int full_scale)
{
bc_num u0, u1, v0, v1;
int u0len, v0len;
bc_num m1, m2, m3, d1, d2;
int n, prodlen, m1zero;
int d1len, d2len;

/* Base case? */
if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
    _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
    return;
}

/* Calculate n -- the u and v split point in digits. */
n = (MAX(ulen, vlen)+1) / 2;

/* Split u and v. */
if (ulen < n) {
    u1 = bc_copy_num (_zero_);
    u0 = new_sub_num (ulen,0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value+ulen-n);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen,0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */
bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}

_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)). */

void
bc_multiply (n1, n2, prod, scale)
  bc_num n1, n2, *prod;
  int scale;
{
  bc_num pval;
  int len1, len2;
  int full_scale, prod_scale;

  /* Initialize things. */
  len1 = n1->n_len + n1->n_scale;
  len2 = n2->n_len + n2->n_scale;
  full_scale = n1->n_scale + n2->n_scale;
  prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

  /* Do the multiply */
  _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

  /* Assign to prod and clean up the number. */
  pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
  pval->n_value = pval->n_ptr;
  pval->n_len = len2 + len1 + 1 - full_scale;
  pval->n_scale = prod_scale;
  _bc_rm_leading_zeros (pval);
  if (bc_is_zero (pval))
    pval->n_sign = PLUS;
  bc_free_num (prod);
  *prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT.  It is written so that NUM and RESULT can be
the same pointers. */
static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
    {
        if (digit == 1)
            memcpy (result, num, size);
        else
        {
/* Initialize */
            nptr = (unsigned char *) (num+size-1);
            rptr = (unsigned char *) (result+size-1);
            carry = 0;

            while (size-- > 0)
            {
                value = *nptr-- * digit + carry;
                *rptr-- = value % BASE;
                carry = value / BASE;
            }

            if (carry != 0) *rptr = carry;
        }
    }
}

/* The full division routine. This computes N1 / N2. It returns 0 if the division is ok and the result is in QUOT. The number of digits after the decimal point is SCALE. It returns -1 if division by zero is tried. The algorithm is found in Knuth Vol 2, p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
int scale1, val;
unsigned int len1, len2, scale2, qdigits, extra, count;
unsigned int qdig, qguess, borrow, carry;
unsigned char *mval;
char zero;
unsigned int norm;

/* Test for divide by zero. */
if (bc_is_zero (n2)) return -1;

/* Test for divide by 1. If it is we must truncate. */
if (n2->n_scale == 0)
{
    if (n2->n_len == 1 && *n2->n_value == 1)
    {
        qval = bc_new_num (n1->n_len, scale);
        qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
        memset (&qval->n_value[n1->n_len],0,scale);
        memcpy (qval->n_value, n1->n_value,
                n1->n_len + MIN(n1->n_scale,scale));
        bc_free_num (quot);
        *quot = qval;
    }
}

/* Set up the divide. Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
um2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr != 0)
{
    n2ptr++;
    len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
    qdigits = scale+1;
    zero = TRUE;
}
else
{
    zero = FALSE;
    if (len2 > len1)
        qdigits = scale+1; /* One for the zero integer part. */
    else
        qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
        qptr = (unsigned char *) qval->n_value+len2-len1;
    else
        qptr = (unsigned char *) qval->n_value;
/* Loop */
while (qdig <= len1+scale-len2)
{
    /* Calculate the quotient digit guess. */
    if (*n2ptr == num1[qdig])
        qguess = 9;
    else
        qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

    /* Test qguess. */
    if (n2ptr[1]*qguess >
        (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
        + num1[qdig+2])
    {
        qguess--; /* And again. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
            qguess--; /* And again. */
    }

    /* Multiply and subtract. */
borrow = 0;
    if (qguess != 0)
    {
        *mval = 0;
        _one_mult (n2ptr, len2, qguess, mval+1);
        ptr1 = (unsigned char *) num1+qdig+len2;
        ptr2 = (unsigned char *) mval+len2;
        for (count = 0; count < len2+1; count++)
        {
            val = (int) *ptr1 - (int) *ptr2-- - borrow;
            if (val < 0)
            {
                val += 10;
                borrow = 1;
            }
            else
            {
                borrow = 0;
                *ptr1-- = val;
            }
        }
    }

    /* Test for negative result. */
    if (borrow == 1)
    {
        qguess--;
    }
ptr1 = (unsigned char *) num1+qdig+len2;
ptr2 = (unsigned char *) n2ptr+len2-1;
carry = 0;
for (count = 0; count < len2; count++)
{
val = (int) *ptr1 + (int) *ptr2-- + carry;
if (val > 9)
{
val -= 10;
carry = 1;
}
else

carry = 0;
*ptr1-- = val;
}
if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and 
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT 
is NULL then that store will be omitted. */

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;

int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);
    if (quot)
        { bc_free_num (quot);
        *quot = quotient;
        }

    return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the 
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is 
placed in RESULT. If a EXPO is not an integer, 
only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
bc_num base, expo, mod, *result;
int scale;
{
bc_num power, exponent, parity, temp;
int rscale;

/* Check for correct numbers. */
if (bc_is_zero(mod)) return -1;
if (bc_is_neg(expo)) return -1;

/* Set initial values. */
power = bc_copy_num (base);
exponent = bc_copy_num (expo);
temp = bc_copy_num (_one_);
bc_init_num(&parity);

/* Check the base for scale digits. */
if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

/* Check the exponent for scale digits. */
if (exponent->n_scale != 0)
{
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
}

/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }
    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0;/* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
  bc_num num1, num2, *result;
  int scale;
{
  bc_num temp, power;
  long exponent;
  int rscale;
  int pwrscale;
  int calcscale;
  char neg;

  /* Check the exponent for scale digits and convert to a long. */
  if (num2->n_scale != 0)
    bc_rt_warn ("non-zero scale in exponent");
  exponent = bc_num2long (num2);
  if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
    bc_rt_error ("exponent too large in raise");

  /* Special case if exponent is a zero. */
  if (exponent == 0)
    {
      bc_free_num (result);
      *result = bc_copy_num (_one_);
      return;
    }

  /* Other initializations. */
  if (exponent < 0)
    {
      neg = TRUE;
      exponent = -exponent;
      rscale = scale;
    }
  else
    {
      neg = FALSE;
      rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
    }
/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
pwrscale = 2*pwrscale;
bc_multiply (power, power, &power, pwrscale);
exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
pwrscale = 2*pwrscale;
bc_multiply (power, power, &power, pwrscale);
if ((exponent & 1) == 1) {
calcscale = pwrscale + calcscale;
bc_multiply (temp, power, &temp, calcscale);
}
exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
bc_divide (_one_, temp, result, rscale);
bc_free_num (&temp);
}
else
{
b万平方米 (result);
*result = temp;
if ((*result)->n_scale > rscale)
(*result)->n_scale = rscale;
bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits after the decimal place. */

int bc_sqrt (num, scale)
bc_num *num;
int scale;
{
int rscale, cmp_res, done;
int cscale;
bc_num guess, guess1, point5, diff;

/* Initial checks. */
cmp_res = bc_compare (*num, _zero_);
if (cmp_res < 0)
    return 0; /* error */
else
    
    if (cmp_res == 0)
       
        {
        bc_free_num (num);
        *num = bc_copy_num (_zero_);
        return 1;
        }
    
    cmp_res = bc_compare (*num, _one_);
    if (cmp_res == 0)
       
        {
        bc_free_num (num);
        *num = bc_copy_num (_one_);
        return 1;
        }
    
    /* Initialize the variables. */
    rscale = MAX (scale, (*num)->n_scale);
    bc_init_num(&guess);
    bc_init_num(&guess1);
    bc_init_num(&diff);
    point5 = bc_new_num (1,1);
    point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
   
   { /* The number is between 0 and 1. Guess should start at 1. */
   guess = bc_copy_num (_one_);
   cscale = (*num)->n_scale;
   }
else
   
   { /* The number is greater than 1. Guess should start at 10^(exp/2). */
   bc_int2num (&guess,10);
bc_int2num (&guess1,(*num)->n_len);
bc_multiply (guess1, point5, &guess1, 0);
guess1->n_scale = 0;
bc_raise (guess, guess1, &guess, 0);
bc_free_num (&guess1);
cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_, num, rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long  digit;
    struct stk_rec *next;
} stk_rec;
/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
  long val;
  int size, space;
#ifdef __STDC__
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
{
  char digits[40];
  int len, ix;

  if (space) (*out_char) (' ');
  sprintf (digits, "%ld", val);
  len = strlen (digits);
  while (size > len)
    {
      (*out_char) ('0');
      size--;
    }
  for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
  bc_num num;
  int o_base;
#ifdef __STDC__
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
{ int leading_zero;

char *nptr;
int index, fdigit, pre_space;
stk_rec *digits, *temp;
bv_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

/* The negative sign if needed. */
if (num->n_sign == MINUS) (*out_char) ('-);

/* Output the number. */
if (bc_is_zero (num))
  (*out_char) ('0');
else
  if (o_base == 10)
    {
    /* The number is in base 10, do it the fast way. */
    nptr = num->n_value;
    if (num->n_len > 1 || *nptr != 0)
      for (index=num->n_len; index>0; index--)
        (*out_char) (BCD_CHAR(*nptr++));
    else
      nptr++;
    if (leading_zero && bc_is_zero (num))
      (*out_char) ('0');
  }
  else
    {
    /* special case ... */
    if (leading_zero && bc_is_zero (num))
      (*out_char) ('0');
  }

/* Now the fraction. */
if (num->n_scale > 0)
  {
    (*out_char) ('.');
    for (index=0; index<num->n_scale; index++)
      (*out_char) (BCD_CHAR(*nptr++));
  }
else
  {
  /* Make the INT_PART and FRAC_PART positive. */
  digits = NULL;
bv_init_num (&int_part);
bv_divide (num, _one_, &int_part, 0);
bv_init_num (&frac_part);
bv_init_num (&cur_dig);
bv_init_num (&base);
bv_sub (num, int_part, &frac_part, 0);
  /* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
brc_int2num (&max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide (int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
        free (temp);
    }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) (',');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
else {
    bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
    pre_space = 1;
    }
    bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}
}

/* Convert a number NUM to a long. The function returns only the integer 
part of the number. For numbers that are too large to represent as 
a long, this function returns a zero. This can be detected by checking 
the NUM for zero after having a zero returned. */

long 
bc_num2long (num) 
    bc_num num; 
{
    long val;
    char *nptr;
    int index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS) 
        return (val);
    else 
        return (-val);
}
/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int  ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
    {
        neg = 1;
        val = -val;
    }

    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

    /* Extract remaining digits. */
    while (val != 0)
    {
        *bptr++ = val % BASE;
        val = val / BASE;
        ix++; /* Count the digits. */
    }

    /* Make the number. */
    bc_free_num (num);
    *num = bc_new_num (ix, 0);
    if (neg) (*num)->n_sign = MINUS;

    /* Assign the digits. */
    vptr = (*num)->n_value;
    while (ix-- > 0)
    { *
        vptr++ = *--bptr;
    }

    /* Convert a numbers to a string. Base 10 only. */

    char
    *num2str (num)
    bc_num num;
char *str, *sptr;
char *nptr;
int  index, signch;

/* Allocate the string memory. */
signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
else
    str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();

/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr);
}

/* Terminate the string and return it! */
*sptr = '0';
return (str);

/* Convert strings to bc numbers. Base 10 only. */

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);
/* Check for valid number and count digits. */
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( (*ptr == '+') || (*ptr == '-') ) ptr++; /* Sign */
while (*ptr == '0') ptr++; /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*(ptr != '0') || (digits+strscale == 0))
{
    *num = bc_copy_num (_zero_);
    return;
}
/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
digits = 1;
}
*num = bc_new_num (digits, strscale);
/* Build the whole number. */
ptr = str;
while (*ptr == '.')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);
/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
    *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('n');
}

/* pv prints a character array as if it was a string of bcd digits. */

void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
    printf ("\n");
}

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.2388 jackson-databind 2.9.6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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**1.2389 tornado 4.4.2-1.tet**

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1.2390 scala-actors 2.11.0

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File: ConditionVariable.java
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and everyone contributing, testing, and using this code.
History:
Date    Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
  */opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
  jar/scala/actors/threadpool/locks/CondVar.java
  */opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
  jar/scala/actors/threadpool/locks/FIFOCondVar.java
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History:

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<th>Who</th>
<th>What</th>
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<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>replaced int counters with longs</td>
</tr>
<tr>
<td>24Aug1999</td>
<td>dl</td>
<td>release(n): screen arguments</td>
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Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/helpers/WaitQueue.java

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*
* Thanks to Craig Mattocks for suggesting to use <code>sun.misc.Perf</code>.
*/

Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/helpers/Utils.java

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/*

File: LinkedQueue.java

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History:

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<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25Aug1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
<tr>
<td>10Dec1998</td>
<td>dl</td>
<td>added isEmpty</td>
</tr>
<tr>
<td>10Oct1999</td>
<td>dl</td>
<td>lock on node object to ensure visibility</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/LinkedQueue.java

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Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/AbstractCollection.java
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File: LinkedNode.java

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History:
Date       Who                What
11Jun1998  dl               Create public version
25may2000  dl               Change class access to public
26nov2001  dl               Added no-arg constructor, all public access.
*/

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* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/LinkedNode.java
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Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/AtomicInteger.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/AbstractQueue.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/TimeUnit.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Future.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/locks/ReentrantLock.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Executor.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/AbstractExecutorService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/TimeoutException.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Executors.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/RunnableFuture.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ExecutorService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ThreadPoolExecutor.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/SynchronousQueue.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ReentrantReadWriteLock.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Condition.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ExecutorCompletionService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/BlockingQueue.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/CompletionService.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/ThreadFactory.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/RejectedExecutionException.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/RejectedExecutionHandler.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/Callable.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/CancellationException.java

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Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
  jar/scala/actors/threadpool/Helpers/NanoTimer.java
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
  jar/scala/actors/threadpool/Helpers/ThreadHelpers.java

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/**
* Returns an array containing all of the elements in this queue, in
* proper sequence.
*
* <p>The returned array will be "safe" in that no references to it are
* maintained by this queue. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this queue
*/

Found in path(s):
* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-
  jar/scala/actors/threadpool/Arrays.java

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* /opt/cola/permits/1137305836_1614052303.87/0/scala-actors-2-11-0-sources-1-jar/scala/actors/threadpool/FutureTask.java

1.2391 go-ole 1.2.4

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1.2392 tar 1.26 35.el7

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*/
#endif

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800  /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK        0x2000  /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK     0x3ff7
/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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 *
 * @(#)mman.h 8.1 (Berkeley) 6/2/93
 */

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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/*      $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
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*/

{| Key | Value |
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<tr>
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<tr>
<td>TARGET_ESRCH</td>
<td>3</td>
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<tr>
<td>TARGET_EINTR</td>
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<tr>
<td>TARGET_EIO</td>
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<tr>
<td>TARGET_ENXIO</td>
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<tr>
<td>TARGET_E2BIG</td>
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<tr>
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<td>TARGET_EDEADLK</td>
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<tr>
<td>TARGET_EFAULT</td>
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<tr>
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<td>TARGET EINVAL</td>
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<tr>
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<tr>
<td>TARGET_EMFILE</td>
<td>24</td>
</tr>
<tr>
<td>TARGET_ENOTTY</td>
<td>25</td>
</tr>
</tbody>
</table>
#define TARGET_ETXTBSY 26  /* Text file busy */
#define TARGET_EFBIG 27  /* File too large */
#define TARGET_ENOSPC 28  /* No space left on device */
#define TARGET_ESPIPE 29  /* Illegal seek */
#define TARGET_EROFS 30  /* Read-only file system */
#define TARGET_EMLINK 31  /* Too many links */
#define TARGET_EPIPE 32  /* Broken pipe */

/* math software */
#define TARGET_EDOM 33  /* Numerical argument out of domain */
#define TARGET_ERANGE 34  /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35  /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN  /* Operation would block */
#define TARGET_EINPROGRESS 36  /* Operation now in progress */
#define TARGET_EALREADY 37  /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38  /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39  /* Destination address required */
#define TARGET_EMSGSIZE 40  /* Message too long */
#define TARGET_EPROTOTYPE 41  /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42  /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43  /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44  /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45  /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46  /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47  /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48  /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49  /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50  /* Network is down */
#define TARGET_ENETUNREACH 51  /* Network is unreachable */
#define TARGET_ENETRESET 52  /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53  /* Software caused connection abort */
#define TARGET_ECONNRESET 54  /* Connection reset by peer */
#define TARGET_ENOBUFS 55  /* No buffer space available */
#define TARGET_EISCONN 56  /* Socket is already connected */
#define TARGET_ENOTCONN 57  /* Socket is not connected */
#define TARGET_ESHUTDOWN 58  /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59  /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60  /* Operation timed out */
#define TARGET_ECONNREFUSED 61  /* Connection refused */

#define TARGET_ELOOP 62  /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63  /* File name too long */
/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, \%d, \%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(\%x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
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ifdef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
    SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
    for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
    for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */
/*      * System call numbers.                                           */
/*      * created from;        OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_get.sockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer   86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setssockopt 105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv      120
#define TARGET_OPENBSD_NR_writev     121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename      128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfs ioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrpcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
/#define TARGET_OPENBSD_NR_getresgid 283
/#define TARGET_OPENBSD_NR_setresgid 284
/#define TARGET_OPENBSD_NR_mquery   286
/#define TARGET_OPENBSD_NR_closefrom 287
/#define TARGET_OPENBSD_NR_sigaltstack 288
/#define TARGET_OPENBSD_NR_shmget     289
/#define TARGET_OPENBSD_NR_semop      290
/#define TARGET_OPENBSD_NR_stat       291
/#define TARGET_OPENBSD_NR_fstat      292
/#define TARGET_OPENBSD_NR_lstat      293
/#define TARGET_OPENBSD_NR_fhstat     294
/#define TARGET_OPENBSD_NR___semctl    295
/#define TARGET_OPENBSD_NR_shmctl     296
/#define TARGET_OPENBSD_NR_msgctl     297
/#define TARGET_OPENBSD_NR_sched_yield 298
/#define TARGET_OPENBSD_NR_getthrid   299
/#define TARGET_OPENBSD_NR_thrsleep   300
/#define TARGET_OPENBSD_NR_thrwakeup  301
/#define TARGET_OPENBSD_NR_threxit    302
/#define TARGET_OPENBSD_NR_thrsigdivert 303
/#define TARGET_OPENBSD_NR___getcwd    304
/#define TARGET_OPENBSD_NR_adjfreq    305
/#define TARGET_OPENBSD_NR_getfsstat  306
/#define TARGET_OPENBSD_NR_statfs     307
/#define TARGET_OPENBSD_NR_fhstatfs   308
/#define TARGET_OPENBSD_NR___fstatfs  309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
#*****************************************************************************
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# *
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#*****************************************************************************/

ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDLFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I . -I./include -I./include/x86emu \ 
-I$(TOP)/clients/net-snke/include -I$(ROOTDIR)/include \ 
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
-ffreestanding -Wall -Wno-unused

X86EMU_OBJCs= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
  $(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
  $(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJCs)
$(AR) -rc $@ $^ $(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a
distclean: clean

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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
 */

#define TARGET_NETBSD_NR_syscall     0
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#define TARGET_NETBSD_NR_fork        2
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#define TARGET_NETBSD_NR_write       4
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#define TARGET_NETBSD_NR_chown 16
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/
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
 /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
 /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
 /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid  20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74

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#define TARGET_FREEBSD_NR_madvise   75
     /* 76 is obsolete vhangup */
     /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore    78
#define TARGET_FREEBSD_NR_getgroups  79
#define TARGET_FREEBSD_NR_setgroups  80
#define TARGET_FREEBSD_NR_getpgrp    81
#define TARGET_FREEBSD_NR_setpgid    82
#define TARGET_FREEBSD_NR_setitimer  83
     /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff    85
#define TARGET_FREEBSD_NR_getitimer  86
     /* 87 is old gethostname */
     /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2       90
#define TARGET_FREEBSD_NR_fcntl      92
#define TARGET_FREEBSD_NR_select     93
#define TARGET_FREEBSD_NR_fsync      95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket     97
#define TARGET_FREEBSD_NR_connect    98
     /* 99 is old accept */
#define TARGET_FREEBSD_NR_getsockopt 100
     /* 101 is old send */
     /* 102 is old recv */
     /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind       104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen     106
     /* 107 is obsolete vtimes */
     /* 108 is old sigvec */
     /* 109 is old sigblock */
     /* 110 is old sigsetmask */
     /* 111 is old sigsuspend */
     /* 112 is old sigstack */
     /* 113 is old recvmsg */
     /* 114 is old sendmsg */
     /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv      120
#define TARGET_FREEBSD_NR_writev     121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown      123
#define TARGET_FREEBSD_NR_fchmod      124
     /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
  /* 129 is old truncate */
  /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mknodo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
  /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
  /* 141 is old getpeername */
  /* 142 is old gethostid */
  /* 143 is old sethostid */
  /* 144 is old getrlimit */
  /* 145 is old setrlimit */
  /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
  /* 149 is old quota */
  /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
  /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4 statfs 157
#define TARGET_FREEBSD_NR_freebsd4 fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4 getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4 uname 164
#define TARGET_FREEBSD_NR_sysarch 165
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#define TARGET_FREEBSD_NR_msgrsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6 pread 173
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#define TARGET_FREEBSD_NR_ntp_adjtime 176
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#define TARGET_FREEBSD_NR_seteuid 183
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#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentieses 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysct1 202
#define TARGET_FREEBSD_NR_mlock 203
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#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semct1 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgct1 224
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#define TARGET_FREEBSD_NR_msgsnd 226
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#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmct1 229
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#define TARGET_FREEBSD_NR_shmget 231
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#define TARGET_FREEBSD_NR_clock_settime 233
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#define TARGET_FREEBSD_NR_ntp_gettime 248
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#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
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#define TARGET_FREEBSD_NR_lchmod 274
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#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
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==============================================
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libfdt by keeping the license terms simple and familiar to be the more
important goal.

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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```

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
*not* fall under the heading of "derived work".
-- Wolfgang Denk
Index: debug.c
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    } else {
        x86emu_dump_regs();
    }

    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x", M.x86.saved_cs, M.x86.saved_ip);
        for (i=0; i < M.x86.enc_pos; i++) {
            sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s, o+i));
        }
        printk("%-20s", buf1);
        printk("%-20s", buf1);
    }
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = (u16)target;
        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+
// perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+
+void x86emuOp2_bswap(u8 op2)
+
/* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODEPRINTF("BSWAPt");
+ switch (op2) {
+ case 0xc8:
+ DECODEPRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODEPRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODEPRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODEPRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODEPRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODEPRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODEPRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
case 0xcf:
    DECODE_PRINTF("EDI\n");
    M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
    break;

TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,  
+/* 0xc9 */ x86emuOp2_bswap,  
+/* 0xca */ x86emuOp2_bswap,  
+/* 0xcb */ x86emuOp2_bswap,  
+/* 0xcc */ x86emuOp2_bswap,  
+/* 0xcd */ x86emuOp2_bswap,  
+/* 0xce */ x86emuOp2_bswap,  
+/* 0xcf */ x86emuOp2_bswap,  

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+ }  
  DECODE_CLEAR_SEGOVR();  
  END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
  target = (u16)(M.x86.R_IP + (s16)offset);
  DECODE_PRINTF2("%x\n", target);
  TRACE_AND_STEP();
- if (cond)
+ if (cond) {
    M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
  count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
  M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}  
  while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -2559,9 +2569,11 @@
  count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
  M.x86.R_CX = 0;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
   /* REPE */
   /* move them until CX is ZERO. */
   while (M.x86.R_CX != 0) {
   /* move them until (E)CX is ZERO. */
   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      val1 = fetch_data_byte(M.x86.R_SI);
      val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
      cmp_byte(val1, val2);
      M.x86.R_CX -= 1;
      M.x86.R_SI += inc;
      M.x86.R_DI += inc;
      if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
      if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
      if (M.x86.intr & INTR_HALTED) break;
   }
   M.x86.R_CX -= 1;
   M.x86.R_SI += inc;
   M.x86.R_DI += inc;
   if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
   if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
   if (M.x86.intr & INTR_HALTED) break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE */
      /* move them until CX is ZERO. */
      while (M.x86.R_CX != 0) {
      /* move them until (E)CX is ZERO. */
      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val1 = fetch_data_byte(M.x86.R_SI);
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_byte(val1, val2);
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
         }
val1 = fetch_data_long(M.x86.R_SI);
val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word((u16)val1, (u16)val2);
}
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
} else {
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-            /* move them until CX is ZERO. */
-            while (M.x86.R_CX != 0) {
+            /* move them until (E)CX is ZERO. */
+            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
    } else {
@@ -2783,9 +2812,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-            /* move them until CX is ZERO. */
-            count = M.x86.R_CX;
+            /* move them until (E)CX is ZERO. */
+            count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
    } else {

M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R ECX = 0;
  M.x86.mode &= ~((SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE));
} 
while (count--) {
@@ -2795,6 +2826,8 @@
  store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R AX);
 } 
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+    break;
} 
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
  inc = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX) != 0) {
    M.x86.R_AL = fetch_data_byte(M.x86.R SI);
-    M.x86.R CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R ECX -= 1;
+    else
+        M.x86.R CX -= 1;
    M.x86.R SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
  } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX;
      M.x86.R CX = 0;
+      if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
  }
while (count--) {
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    -    /* move them until CX is ZERO. */
    -    while (M.x86.R_CX != 0) {
    +    /* move them until (E)CX is ZERO. */
    +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        -            M.x86.R_CX -= 1;
        +            if (M.x86.mode & SYSMODE_32BIT_REP)
        +                M.x86.R_ECX -= 1;
        +            else
        +                M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
        +            if (M.x86.intr & INTR_HALTED)
        +                break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    -    /* move them until CX is ZERO. */
    -    while (M.x86.R_CX != 0) {
    +    /* move them until (E)CX is ZERO. */
    +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        -            M.x86.R_CX -= 1;
        +            if (M.x86.mode & SYSMODE_32BIT_REP)
        +                M.x86.R_ECX -= 1;
        +            else
        +                M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;  /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+ break;
} else {

@@ -2951,8 +3003,8 @@
 TRACE_AND_STEP();
 if (M.x86.mode & SYSMODE_PREFIX_REPE) {
 /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 if (M.x86.mode & SYSMODE_PREFIX_DATA) {
     val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
     cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
     val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
     cmp_word(M.x86.R_AX, (u16)val);
 }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
 M.x86.R_DI += inc;
 if (ACCESS_FLAG(F_ZF) == 0)
 break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
 M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
 /* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 if (M.x86.mode & SYSMODE_PREFIX_DATA) {
     val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
     cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
     val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
     cmp_word(M.x86.R_AX, (u16)val);
 }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
else
+    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
+      if (ACCESS_FLAG(F_ZF))
+        break; /* zero flag set means equal */
+      if (M.x86.intr & INTR_HALTED)
+        break;
+  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@ @ -3471,10 +3533,10 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_CS = pop_word();
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}@ @ -3488,10 +3550,10 @@
{
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
    M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x: ", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+     M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}

break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;


tvoid imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);

}
tvoid mul_long(u32 s)
{
    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
M.x86.R_EAX = (u32)res;
M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
-        while (count--) {
-            single_in(size);
-            M.x86.R_DI += inc;
-        }
-        M.x86.R_CX = 0;
+        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000
+++ sys.c 7 Sep 2007 10:03:13 -0000
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("inb %#04x \n", addr);
-  return inb(addr);
+  return 0;
 }

/***************************************************************************/
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("inw %#04x \n", addr);
-  return inw(addr);
+  return 0;
 }

/***************************************************************************/
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("inl %#04x \n", addr);
-  return inl(addr);
+  return 0;
 }

/***************************************************************************/
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE()))
 printk("outb %#02x -> %#04x \n", val, addr);
-  outb(val, addr);
  return;
}
@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;

@@ -295,7 +288,6 @@
    DB(if (DEBUG_IO_TRACE())
        printk("outl %#08x -> %#04x \n", val, addr);
    -outl(val, addr);
    return;

@@ -405,6 +397,6 @@
 void X86EMU_setMemBase(void *base, size_t size)
 {
    -M.mem_base = (int) base;
    +M.mem_base = (unsigned long) base;
    M.mem_size = size;
 }

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000.1.4
@@ -40,8 +40,6 @@
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H
 /*---------------------- Macros and type definitions ----------------------*/
+/*---------------------- Macros and type definitions ----------------------*/
-*/
define DEBUG 0
-#undef DEBUG
/* checks to be enabled for "runtime" */
@ @ -78,6 +76,8 @@
 # define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
 # define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
 # define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+## define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+## define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
```c
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
#define DEBUG_TRACEJMP()       0
#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
#define DEBUG_TRACEJMP()       0
#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
#define DEBUG_TRACEJMP()       0
#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
@endif

#if DEBUG
#define CALL_TRACE(u,v,w,x,s)
#define RETURN_TRACE(n,u,v)
#define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
```

Open Source Used In Secure Workload 3.6.1.1 28700
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
+#define SYSMODE_INTR_PENDING    0x10000000
+#define SYSMODE_EXTRN_INTR      0x20000000
+#define SYSMODE_HALTED          0x40000000
@ @ -250,7 +253,8 @ @
SYSMODE_SEGOVR_GS  | \ 
SYSMODE_SEGOVR_SS  | \ 
SYSMODE_PREFIX_DATA | \ 
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR    | \ 
+ SYSMODE_32BIT_REP)"
+\#define DEBUG_TRACEJMP_F    0x020000
+\#define DEBUG_TRACEJMP_REGS_F 0x040000
\#define DEBUG_SYS_F       (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

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# *
# * Contributors:
# * IBM Corporation - initial implementation
# ***************************************************************************/
#!/bin/bash

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether svn, patch, ... is available...
if [ ! -x $SVN ]; then
    echo "subversion executable not found!"
    exit -1
fi
if [ ! -x $PATCH ]; then
    echo "patch executable not found!"
    exit -1
fi
if [ ! -r $DIFF_FILE ]; then
    echo "diff file $DIFF_FILE not found!"
    exit -1
fi

# download the x86emu sources from LinuxBIOS subversion
#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."
mkdir -p include/x86emu
cp -v x86emu/x86emu/* .
cp -v x86emu/x86emu/* . include/x86emu
cp -v x86emu/include/x86emu/* . include/x86emu

echo "Removing checkedout subversion director..."
rm -rf x86emu

echo "Patching files..."
$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

This is the software license for Capstone disassembly framework.

Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname ,-Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
 %.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
 %.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec "$(GEN_DEPS.c) $< \
 | sed "$s/\(\*\)/o \: /g\" > $@; \n [ -s $@ ] || rm -f $@"
 %.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec "$(GEN_DEPS.cc) $< \
 | sed "$s/\(\*\)/o \: /g\" > $@; \n [ -s $@ ] || rm -f $@"

## Versioned libraries rules
%.$(SO),$(SO_TARGET_VERSION_MAJOR): %.$(SO),$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO),$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.${(SO).$(SO_TARGET_VERSION)} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library `s`
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

---

### 1.2405 cairomm 1.12.0 1.el7

#### 1.2405.1 Available under license:

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.2422 redis 3.3.5

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1.2425 pillow 3.2.0

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GIMP Palette
Name: custompalette
Columns: 4
#
  0  0  0  Index 3
 65 38 30  Index 4
103 62 49  Index 6
 79  73  72 Index 7
114 101  97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11
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GIMP Palette
Name: badpalettefile
Columns: 4
#
0 0 0  Index 3
0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
3456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
103 62 49  Index 6
79  73  72  Index 7
114 101  97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

GIMP Palette
Name: Test
Columns: 0
#
GIMP Palette
Name: badpaletteentry
Columns: 4
#
0 0 0  Index 3
65  38
103 62 49  Index 6
79  73  72  Index 7
114 101  97  Index 8
208 127 100  Index 9
1.2426 llvm 7.0.1-1.el7

1.2426.1 Available under license:

; NOTE: Assertions have been autogenerated by utils/update_llvm_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
  ; CHECK-LABEL: PR41535:
  ; CHECK:       // %bb.0:
  ; CHECK-NEXT:   ext v0.8b, v0.8b, v1.8b, #4
  ; CHECK-NEXT:   mov v0.d[1], v0.d[0]
  ; CHECK-NEXT:   ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
  ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246 CF246:                                            ; preds = %CF246, %BB
  %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248 CF248:                                            ; preds = %CF248, %CF246
  store i8 %Sl163, i8* %0
  br label %CF248
}

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {

; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-LABEL: 'zext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
define void @sext256() "min-legal-vector-width"="256" {
    %C = sext <8 x i8> undef to <8 x i64>
    %D = sext <8 x i16> undef to <8 x i64>
    %E = sext <8 x i32> undef to <8 x i64>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }
define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

  sw.bb.i: ; preds = %while.body
    unreachable

  sw.bb3.i: ; preds = %while.body
    unreachable

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

  sw.bb.i17: ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

  sw.bb3.i20: ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

  exit.2: ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
    br label %while.body

  while.end: ; preds = %entry
    ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}
define internal void @innerLarge() "min-legal-vector-width"="512" { 
  ret void 
}

define internal void @innerNoAttribute() { 
  ret void 
}

; We should not add an attribute during inlining. No attribute means unknown. 
; Inlining doesn't change the fact that we don't know anything about this 
; function. 
define void @outerNoAttribute() { 
  call void @innerLarge() 
  ret void 
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" { 
  call void @innerLarge() 
  ret void 
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" { 
  call void @innerSmall() 
  ret void 
}

; We should remove the attribute after inlining since the callee's 
; vector width requirements are unknown. 
define void @outerAttribute() "min-legal-vector-width"="128" { 
  call void @innerNoAttribute() 
  ret void 
}

; CHECK: define void @outerNoAttribute() 
; CHECK: define void @outerConflictingAttributeSmall() #0 
; CHECK: define void @outerConflictingAttributeLarge() #0 
; CHECK: define void @outerAttribute() 
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874752 to i16*)
  %1 = load volatile i16, i16* inttoptr (i32 805874688 to i16*)
  %2 = load volatile i16, i16* inttoptr (i32 805874719 to i16*)
  %3 = load volatile i16, i16* inttoptr (i32 805874720 to i16*)
  %4 = load volatile i16, i16* inttoptr (i32 805874727 to i16*)
  store i16 %4, i16* inttoptr(i32 805873688 to i16*)
  store i16 %3, i16* inttoptr(i32 805873719 to i16*)
  store i16 %2, i16* inttoptr(i32 805873720 to i16*)
  store i16 %1, i16* inttoptr(i32 805873727 to i16*)
  store i16* inttoptr(i32 805874800 to i16*), i16** @goo
  ret void
}
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
    entry:
    %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
    %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
    %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
    %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
    %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
    %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
    ret void
}
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define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:   vpadd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:   vpadd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:   vpadd 64(%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, %4,
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, %4,
%6 = add nuw nsw <64 x i32> %5, %4
%7 = trunc <64 x i32> %6 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {  
    %A = load <32 x i16>, <32 x i16>* %APtr  
    %B = load <32 x i16>, <32 x i16>* %BPtr  
    %a = sext <32 x i16> %A to <32 x i32>  
    %b = sext <32 x i16> %B to <32 x i32>  
    %m = mul nsw <32 x i32> %a, %b  
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>  
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
    %ret = add <16 x i32> %odd, %even  
    store <16 x i32> %ret, <16 x i32>* %CPtr  
    ret void  
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
    %A = load <32 x i16>, <32 x i16>* %APtr  
    %B = load <32 x i16>, <32 x i16>* %BPtr  
    %a = sext <32 x i16> %A to <32 x i32>  
    %b = sext <32 x i16> %B to <32 x i32>  
    %m = mul nsw <32 x i32> %a, %b  
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>  
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
    %ret = add <16 x i32> %odd, %even  
    store <16 x i32> %ret, <16 x i32>* %CPtr  
    ret void  
}
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqaf64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: @_Z9test_charPcS_i_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB8_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
    ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
    ; CHECK-NEXT:    vpadd %ymm1, %ymm3, %ymm1
    ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm4
    ; CHECK-NEXT:    vpadd %ymm2, %ymm3, %ymm2
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB8_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
}

entry:
    %3 = zext i32 %2 to i64
    br label %vector.body

vector.body:
    %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
    %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
    %4 = getelementptr inbounds i8, i8* %0, i64 %index
    %5 = bitcast i8* %4 to <32 x i8>*
    %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i32>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; CHECK:   # %bb.0: # %entry
  ; CHECK-NEXT: movl %edx, %eax
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: xorl %ecx, %ecx
  ret i32 %13
}
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef

%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> <32 x i32> %bin.rdx1, undef, <32 x i32> %i32.8, %i32.9, %i32.10, %i32.11, %i32.12, %i32.13, %i32.14, %i32.15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef

%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> <32 x i32> %bin.rdx, undef, <32 x i32> %i32.4, %i32.5, %i32.6, %i32.7, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef

%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> <32 x i32> %bin.rdx32, <32 x i32> %i32.2, %i32.3, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef

%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> <32 x i32> %bin.rdx18, <32 x i32> %i32.1, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef

%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, 0
tret %i32 %13

}@a = global [1024 x i8] zeroinitializer, align 16
}@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sad_16i8_256:
 ; CHECK:       # %bb.0: # %entry
 ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
 ; CHECK-NEXT: .p2align 4, 0x90
 ; CHECK-NEXT: .LBB10_1: # %vector.body
 ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm0
 ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm0
 ; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
 ; CHECK-NEXT: addq $4, %rax
 ; CHECK-NEXT: jne .LBB10_1
 ; CHECK-NEXT: # %bb.2: # %middle.block
 ; CHECK-NEXT: vpadd %ymm0, %ymm0, %ymm0
 ; CHECK-NEXT: vextracti128 k1, %ymm0, %ymm1
 ; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* @a, i64 0, i64 %index
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, i64 0, i64 %index
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = sub nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
  %8 = sub nsw <16 x i32> zeroinitializer, %6
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %lcssa = phi <16 x i32> [ %10, %vector.body ]
  %rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %lcssa, %rdx.shuf
  %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
  %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx3 = add <16 x i32> %bin.rdx3, %rdx.shuf3
  %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4

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%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" { 
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB11_1: # %vector.body
  ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  addq $4, %rax
  ; CHECK-NEXT:  jne .LBB11_1
  ; CHECK-NEXT:  # %bb.2: # %middle.block
  ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
  ; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:  vmovd %xmm0, %eax
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = sub nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
  %8 = sub nsw <16 x i32> zeroinitializer, %6
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [%10, %vector.body]
%rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx = add <16 x i32> %lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx3 = add <16 x i32> %bin.rdx3, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymm1
    ; CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
    ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:    # %bb.0:

; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbtol6f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {  
; CHECK-LABEL: sbtol6f64_256:  
; CHECK:      # %bb.0:  
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @sbtol6f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {  
; CHECK-LABEL: sbtol6f64_512:  
; CHECK:      # %bb.0:  
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %zmm0, %zmm0
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:    vzeroupper
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
  ; CHECK-NEXT:  vmovaps %ymm0, (%rdi)
  ; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm0
  ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
  ; CHECK-NEXT:  vmovaps %ymm0, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT:  vcvtqd2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtqd2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtqd2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT:  vcvtqd2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtqd2pd %xmm2, %ymm3
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL:  ubto16f64_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:  vcvtqd2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtqd2pd %zmm0, %ymm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL:  test_16f32toub_256:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vcvtqps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpslfd $31, %ymm1, %ymm1

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptosi <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptosi <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptosi <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} %ymm4 =
; CHECK-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-NEXT: vpunpcklbw {{.*#+}} %ymm2 =
; CHECK-NEXT: vpmullw %ymm0, %ymm3, %ymm0
; CHECK-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
, zmm0[19], zmm1[20], zmm0[20], zmm1[21], zmm0[21], zmm1[22], zmm0[22], zmm1[23], zmm0[23], zmm1[32], zmm0[32], zmm1[33], zmm0[33], zmm1[34], zmm0[34], zmm1[35], zmm0[35], zmm1[36], zmm0[36], zmm1[37], zmm0[37], zmm1[38], zmm0[38], zmm1[39], zmm0[39], zmm1[48], zmm0[48], zmm1[49], zmm0[49], zmm1[50], zmm0[50], zmm1[51], zmm0[51], zmm1[52], zmm0[52], zmm1[53], zmm0[53], zmm1[54], zmm0[54], zmm1[55], zmm0[55]

; CHECK-NEXT: vpunpcklbw {{.*#*}} zmm0 =

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mload_v4i32:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpunpcklwd {{.*#*}} %k1 =
    ; CHECK-NEXT: vpmullw %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vpandq %zmm3, %zmm0, %zmm0
    ; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq

    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)

store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {  
    %cmp = fcmp ogt fp128 %a, %b  
    %sub = fsub fp128 %a, %b  
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000  
    ret fp128 %res  
    ; CHECK-LABEL: TestSelect:  
    ; CHECK movaps 16(%rsp), %xmm1  
    ; CHECK-NEXT callq __subtf3  
    ; CHECK-NEXT testl %ebx, %ebx  
    ; CHECK-NEXT jg .LBB0_2  
    ; CHECK-NEXT jg .LBB0_2:  
    ; CHECK-NEXT # %bb.1:  
    ; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0  
    ; CHECK-NEXT .LBB0_2:  
    ; CHECK-NEXT addq $32, %rsp  
    ; CHECK-NEXT popq %rbx  
    ; CHECK-NEXT retq  
}

define fp128 @TestFabs(fp128 %a) {  
    %res = call fp128 @llvm.fabs.f128(fp128 %a)  
    ret fp128 %res  
    ; CHECK-LABEL: TestFabs:  
    ; CHECK andps .LCPI1_0(%rip), %xmm0  
    ; CHECK-NEXT retq  
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {  
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)  
    ret fp128 %res  
    ; CHECK-LABEL: TestCopySign:  
    ; CHECK andps .LCPI2_1(%rip), %xmm0  
    ; CHECK-NEXT orps %xmm1, %xmm0  
    ; CHECK-NEXT retq  
}

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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  lib/gssapi/mechglue/g_canon_name.c
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include/iprop_hdr.h
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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*  
*/

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for his contributions to the dvb-net driver
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for CyberLogin for Linux which allows logging onto EON
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1.2435 go-openapi-jsonreference 0.19.3

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1.2450 backports-abc 0.5

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Classifier: Programming Language :: Python :: 3
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PLY (Python Lex-Yacc) Version 3.7

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============

PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

    http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

    http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3—it is not necessary and may in fact break the implementation.

Example
=======
Here is a simple example showing a PLY implementation of a calculator with variables.
# calc.py
#
# A simple calculator with variables.
#
# Tokens
#
# Tokens

tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
)

# Tokens

t_PLUS    = r'\+'  
t_MINUS   = r'-'  
t_TIMES   = r'\*'  
t_DIVIDE  = r'/'  
t_EQUALS  = r'='  
t_LPAREN  = r'('  
t_RPAREN  = r')'  
t_NAME    = r'[a-zA-Z_\[a-zA-Z0-9_]]'*

def t_NUMBER(t):  
    r'\d+'  
    t.value = int(t.value)  
    return t

# Ignored characters

t_ignore = " ^t"

def t_newline(t):  
    r'^n+'  
    t.lexer.lineno += t.value.count("\n")

def t_error(t):  
    print("Illegal character \"%s\"\" % t.value[0])  
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (  
    ('left','PLUS','MINUS'),  
    ('left','TIMES','DIVIDE'),  
    ('right','UMINUS'),  
)
# dictionary of names (for storing variables)
names = {}

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name " %s" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at " %s" % p.value)

import ply.yacc as yacc
yacc.yacc()
while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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Copyright FAQ
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1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its
competitors can't just drop the fonts as is into a font sale system
and sell them as is. It seems fair that if Bitstream can't make money
from the Bitstream Vera fonts, their competitors should not be able to
do so either. You can sell the fonts as part of any software package,
however.

2. I want to package these fonts separately for distribution and
sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin
with, and you aren't selling them independently by themselves.
See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the
quality of the fonts, both to protect Bitstream and Gnome. We want to
ensure that if an application has opened a font specifically of these
names, it gets what it expects (though of course, using fontconfig,
substitutions could still could have occurred during font
opening). You must include the Bitstream copyright. Additional
copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get
adopted in future versions?
Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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Version 3, 29 June 2007


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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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  * Bugfixes in testsuite

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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

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  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

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  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

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  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

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  * Account retries on proxy errors

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  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

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  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection
* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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1.2466 iproute 5.5.0

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1.2469 libsgutils 1.45

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1.2470 loofah 2.10.0

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1.2471 jersey-container-servlet 2.24

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1.2474 ipmi-tool 1.8.18-9.el7_7

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge
On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*   Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA
code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.2522 singledispatch 3.4.0.3

1.2522.1 Available under license:

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Metadata-Version: 1.1
Name: singledispatch
Version: 3.4.0.3
Summary: This library brings functools.singledispatch from Python 3.4 to Python 2.6-3.3.
Home-page: http://docs.python.org/3/library/functools.html#functools.singledispatch
Author: ukasz Langa
Author-email: lukasz@langa.pl
License: MIT
Description: ==============

singledispatch
-----------------

`PEP 443 <http://www.python.org/dev/peps/pep-0443/>`_ proposed to expose a mechanism in the `functools` standard library module in Python 3.4 that provides a simple form of generic programming known as single-dispatch generic functions.

This library is a backport of this functionality to Python 2.6 - 3.3.

To define a generic function, decorate it with the `@singledispatch` decorator. Note that the dispatch happens on the type of the first argument, create your function accordingly::

>>> from singledispatch import singledispatch
>>> @singledispatch
... def fun(arg, verbose=False):
...     if verbose:
...         print("Let me just say,", end=" ")
...     print(arg)

To add overloaded implementations to the function, use the `register()` attribute of the generic function. It is a decorator, taking a type parameter and decorating a function implementing the operation for that type::

>>> @fun.register(int)
... def _(arg, verbose=False):
...     if verbose:
...         print("Strength in numbers, eh?", end=" ")
...     print(arg)
...

>>> @fun.register(list)
... def _(arg, verbose=False):
    ... if verbose:
        ... print("Enumerate this:"")
    ... for i, elem in enumerate(arg):
        ... print(i, elem)

To enable registering lambdas and pre-existing functions, the `register()` attribute can be used in a functional form:

>>> def nothing(arg, verbose=False):
    ... print("Nothing.")
    ...
>>> fun.register(type(None), nothing)

The `register()` attribute returns the undecorated function which enables decorator stacking, pickling, as well as creating unit tests for each variant independently:

>>> @fun.register(float)
... @fun.register(Decimal)
... def fun_num(arg, verbose=False):
    ... if verbose:
        ... print("Half of your number: ", end=" ")
    ... print(arg / 2)
    ...
>>> fun_num is fun
False

When called, the generic function dispatches on the type of the first argument:

>>> fun("Hello, world.")
Hello, world.
>>> fun("test.", verbose=True)
Let me just say, test.
>>> fun(42, verbose=True)
Strength in numbers, eh? 42
>>> fun(['spam', 'spam', 'eggs', 'spam'], verbose=True)
Enumerate this:
0 spam
1 spam
2 eggs
3 spam
>>> fun(None)
Nothing.
>>> fun(1.23)
0.615
Where there is no registered implementation for a specific type, its method resolution order is used to find a more generic implementation. The original function decorated with `@singledispatch` is registered for the base `object` type, which means it is used if no better implementation is found.

To check which implementation will the generic function choose for a given type, use the `dispatch()` attribute:

```python
>>> fun.dispatch(float)
<function fun_num at 0x1035a2840>
>>> fun.dispatch(dict)  # note: default implementation
<function fun at 0x103fe0000>
```

To access all registered implementations, use the read-only `registry` attribute:

```python
>>> fun.registry.keys()
dict_keys([<class 'NoneType'>, <class 'int'>, <class 'object'>,
           <class 'decimal.Decimal'>, <class 'list'>,
           <class 'float'>])
>>> fun.registry[float]
<function fun_num at 0x1035a2840>
>>> fun.registry[object]
<function fun at 0x103fe0000>
```

The vanilla documentation is available at http://docs.python.org/3/library/functools.html#functools.singledispatch.

Versioning
-----------

This backport is intended to keep 100% compatibility with the vanilla release in Python 3.4+. To help maintaining a version you want and expect, a versioning scheme is used where:

* the first three numbers indicate the version of Python 3.x from which the backport is done

* a backport release number is provided after the last dot

For example, ``3.4.0.0`` is the **first** release of ``singledispatch`` compatible with the library found in Python **3.4.0**.

A single exception from the 100% compatibility principle is that bugs fixed before releasing another minor Python 3.x.y version **will be included** in the backport releases done in the mean time. This rule
applies to bugs only.

Maintenance
-----------

This backport is maintained on BitBucket by ukas Langa, one of the members of the core CPython team:

* ` singledispatch Mercurial repository <https://bitbucket.org/ambv/singledispatch>`_

* ` singledispatch issue tracker <https://bitbucket.org/ambv/singledispatch/issues>`_

Change Log
----------

3.4.0.3
~~~~~~~

Should now install flawlessly on PyPy as well. Thanks to Ryan Petrello for finding and fixing the `setup.py` issue.

3.4.0.2
~~~~~~~

Updated to the reference implementation as of 02-July-2013.

* more predictable dispatch order when abstract base classes are in use: abstract base classes are now inserted into the MRO of the argument's class where their functionality is introduced, i.e. issubclass(cls, abc) returns True for the class itself but returns False for all its direct base classes. Implicit ABCs for a given class (either registered or inferred from the presence of a special method like __len__) are inserted directly after the last ABC explicitly listed in the MRO of said class. This also means there are less "ambiguous dispatch" exceptions raised.

* better test coverage and improved docstrings

3.4.0.1
~~~~~~~

Updated to the reference implementation as of 31-May-2013.

* better performance

* fixed a corner case with PEP 435 enums
* calls to `dispatch()` also cached

* dispatching algorithm now a module-level routine called `_find_impl()` with a simplified implementation and proper documentation

* `dispatch()` now handles all caching-related activities

* terminology more consistent: "overload" -> "implementation"

3.4.0.0

* the first public release compatible with 3.4.0

Conversion Process
------------------
This section is technical and should bother you only if you are wondering how this backport is produced. If the implementation details of this backport are not important for you, feel free to ignore the following content.

``singledispatch`` is converted using `six`<http://pypi.python.org/pypi/six>`_ so that a single codebase can be used for all compatible Python versions. Because a fully automatic conversion was not doable, I took the following branching approach:

* the `upstream` branch holds unchanged files synchronized from the upstream CPython repository. The synchronization is currently done by manually copying the required code parts and stating from which CPython changeset they come from. The tests should pass on Python 3.4 on this branch.

* the `default` branch holds the manually translated version and this is where all tests are run for all supported Python versions using Tox.

Keywords: single dispatch generic functions singledispatch genericfunctions decorator backport
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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* /opt/cola/permits/1111648781_1606948571.5/0/singledispatch-3-4-0-3-1-tar-gz/singledispatch-3.4.0.3/PKG-INFO
* /opt/cola/permits/1111648781_1606948571.5/0/singledispatch-3-4-0-3-1-tar-gz/singledispatch-3.4.0.3/singledispatch.egg-info/PKG-INFO

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* /opt/cola/permits/1111648781_1606948571.5/0/singledispatch-3-4-0-3-1-tar-gz/singledispatch-3.4.0.3/setup.py

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Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can


// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// List of features enabled by the license
Features []string `json:"features"

}
type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
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>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829e8cb989a38d
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>>> go-openapi_jsonpointer-779f45308c19820f1a69e9a4ed965f496e0da10f

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>>> go-openapi_jsonreference-36d33bfe519efae5632669801b180bf1a245da3b

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>>> go-openapi_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc

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>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

Go support for leveled logs, analogous to https://code.google.com/google-glog

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>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80

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>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7dac0d357f

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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Go-nfs-client version 0.1

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/vanity/test/proto3.proto

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> nsf_termbox-go-91bae1bb5fa9ee504905eche7043fa30e92feaa3

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>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2

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```bash
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>>> x_net_context-a6577fac2d73be281a500b310739095313165611

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>>> x_net_http2-a6577fac2d73be281a500b310739095313165611

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+build appengine

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package short

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```python
>>> x_tools_imports-381149a2d6e5d8f319ccf04bfe671e03a78b868
```

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>>> curl-7.59.0-4.ph2

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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Tim Kientzle, February 2009.

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Bison implementation for Yacc-like parsers in C


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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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>>> pcre-8.41-1.ph2

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Author: Paul Slootman
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Modifications for MSVC: Yasuhiro Matsumoto

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```shell
>>> iproute2-4.10.0-3.ph2
```

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chkconfig:  2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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utils
pf.os

SYN signatures. Those signatures work for SYN packets only (duh!).

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>>> linux-esx-4.9.154-1.ph2

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Written by David Howells (dhowells@redhat.com)

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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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```

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```

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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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mkinstalldirs --- make directory hierarchy
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rpm-4.13.0.2-release/misc/fts.h

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-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.
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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poe $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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>>> bash-4.4.12-3.ph2

error.c -- Functions for handling errors.

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Bison interface for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Heavily modified for GnuPG by Werner Koch

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Test Socket Type

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve
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Version 2.1, February 1999

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   Version 3, 29 June 2007

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Version 2.0

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2. If this search is successful, then enquire whether the Work is still maintained.
   a. If it is being maintained, then ask the Current Maintainer to update their communication data within one month.
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============================================
Portions of the client are based on code at:
https://github.com/google/go-github/

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---

layout: api
page_title: License - Operator - HTTP API
sidebar_current: api-operator-license
description: |
The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

---

# License - Operator HTTP API

~> **Enterprise Only!** This API endpoint and functionality only exists in Consul Enterprise. This is not present in the open source version of Consul.

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td>------</td>
<td>----------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking.html),
[consistency modes](/api/features/consistency.html),
[agent caching](/api/features/caching.html), and
[required ACLs](/api/index.html#authentication).
<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
<th>-----------</th>
<th>-----------</th>
<th>-----------</th>
<th>-----------</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `-dc` `(string: `")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```text
$ curl \
http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```
## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries]/(api/features/blocking.html), [consistency modes]/(api/features/consistency.html), [agent caching]/(api/features/caching.html), and [required ACLs]/(api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```text
$ curl \
   --request PUT \n   --data @consul.license \n   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
  }
}
```
## Resetting the Consul License

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

<table>
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<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```text
```
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license \
```
### Sample Response
```json
{
   "Valid": true,
   "License": {
      "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
      "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
      "installation_id": "*",
      "issue_time": "2018-05-21T20:03:35.911567355Z",
      "start_time": "2018-05-21T04:00:00Z",
      "expiration_time": "2019-05-22T03:59:59.999Z",
      "product": "consul",
      "flags": {
         "package": "premium"
      },
      "features": [
         "Automated Backups",
         "Automated Upgrades",
         "Enhanced Read Scalability",
         "Network Segments",
         "Redundancy Zone",
         "Advanced Network Federation"
      ],
      "temporary": false
   },
   "Warnings": []
}
```}

procsfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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type Legal_RegulatedWorkload struct {
  Entity

  // no documentation yet
  Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

  // no documentation yet
  AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

  // no documentation yet
  EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

  // no documentation yet
  Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

  // no documentation yet
  Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

  // no documentation yet
  WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
  Entity

  // no documentation yet
  Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

  // no documentation yet
  KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

  // no documentation yet
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}

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1.2525 gamin 0.1.10 9.el6

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1.2530 jackson-jaxrs-base 2.5.4

1.2531 linux-kernel 3.10.0 957.21.3.el7

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the lgdt330x frontend driver, and various bugfixes

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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file (certdata.txt). This file can be found in the mozilla source tree:
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1.2543 xorg-x11-server-utils 7.7 20.el7

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1.2549 perl/locale-codes 3.26 2.el7

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1.2550 e2fsprogs 1.42.9 7.el7

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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distributed together with the ext2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

------------------------------------------------------------------

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That's all there is to it!

# This is a Makefile stub which handles the creation of BSD shared
# libraries.

# In order to use this stub, the following makefile variables must be defined.

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)
$(BSD_LIB): $(OBJFS)
(cd pic; id -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJFS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;";/' $(BSD_LIB) $(BSD_LIB))

test-shlibs install::. $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSD_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSD_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::. $(RM) -f $(DESTDIR)$(BSD_INSTALL_DIR)/$(BSD_LIB)

clean:.
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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1.2556 perl-www-robotrules 6.02 5.el7

1.2557 snappy 1.1.0 3.el7
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1.2558 expat 2.0.1 13.el6_8

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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
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 */

/**
 * A decoder that splits the received [link ByteBuf]s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
* `<pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*

* `<h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* `{@link ByteBuf#readableBytes()}`, you might want to strip the length
* field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
* specified `<tt>2</tt>`, that is same with the length of the length field, to
* strip the first two bytes.
* `<pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 2 (= the length of the Length field)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*

* `<h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* `<tt>lengthAdjustment</tt>`. Because the length value in this example message
* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>
* as `<tt>lengthAdjustment</tt>` for compensation.
* `<pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>`
* BEFORE DECODE (14 bytes)                 AFTER DECODE (14 bytes)
* +-----------------------------+-----------------------------+
* | Length | Actual Content | Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | 0x000E | "HELLO, WORLD" |
* +-----------------------------+-----------------------------+
* </pre>

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `0` for `initialBytesToSkip`.

```
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +--------------------------+--------------------------+
* | HDR1 | Length | HDR2 | Actual Content | | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +--------------------------+--------------------------+
```

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message.

```
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +--------------------------+--------------------------+
* | HDR1 | Length | HDR2 | Actual Content | | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +--------------------------+--------------------------+
```

@see LengthFieldPrepender
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 */

/*
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 * http://creativecommons.org/licenses/publicdomain
 */

/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
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 */

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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java

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* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java

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/*
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/ProtocolDetectionState.java

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jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1075319108_1596106865.94/0/netty-codec-4-1-35-final-sources-1-
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1.2563 janino 3.0.8

1.2564 perl 0.77-144.el6
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- 'Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
lICENSE: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

That's all there is to it!

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c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.2565 gir1.2-gdkpixbuf-2.0 2.20.0
1.2565.1 Available under license:
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Version 2.1, February 1999

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1.2566 mongoid-rails-migrations 1.1.1
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== RELEASE NOTES
* The most current release, 1.1.x, targets Mongoid >= 4.0.0 and Rails >= 4.2.0.
* For Rails >= 3.2.0 and Mongoid >= 3.0.0, use version 1.0.0.
* For Rails >= 3.0.0 (but < 3.2.0) and Mongoid >= 2.0.0, use version 0.0.14.

== SYNOPSIS
* Data migrations for Mongoid.

== MIGRATE WHEN ...
* The migrating is good

== INSTALL
* gem install mongoid_rails_migrations
* In your Gemfile, include (after including mongoid):
  
gem "mongoid_rails_migrations", <version>

== FEATURES AND HOW TO USE
* generator:
  * rails generate mongoid:migration your_migration_name_here

* migrations:
  * db:migrate
  * db:migrate:down
  * db:migrate:up
* db:rollback
* db:migrate:redo
* db:migrate:reset
* db:reseed (handled by mongoid)
* db:version

== TESTING
```
rake test:mongoid:migrations```

== CREDITS TO
* rails
* mongoid
* contributions from the community (git log)

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1.2577 libyaml 0.1.6
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1.2579 backports-functools-lru-cache 1.4
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Metadata-Version: 1.2
Name: backports.functools-lru-cache
Version: 1.4
Summary: backports.functools_lru_cache
Home-page: https://github.com/jaraco/backports.functools_lru_cache
Author: Jason R. Coombs
Author-email: jaraco@jaraco.com
License: UNKNOWN
Description: .. image:: https://img.shields.io/pypi/v/backports.functools_lru_cache.svg
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Backport of functools.lru_cache from Python 3.3 as published at `ActiveState`_

Usage
-----

Consider using this technique for importing the 'lru_cache' function::

    try:
      from functools import lru_cache
    except ImportError:
      from backports.functools_lru_cache import lru_cache

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Requires-Python: >=2.6

Found in path(s):
* /opt/cola/permits/1100839934_1602901352.24/0/backports-functools-lru-cache-1-4-tar-gz/backports.functools_lru_cache-1.4/backports.functools_lru_cache.egg-info/PKG-INFO
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* /opt/cola/permits/1100839934_1602901352.24/0/backports-functools-lru-cache-1-4-tar-gz/backports.functools_lru_cache-1.4/setup.py
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Metadata-Version: 1.2
Name: backports.functools_lru_cache
Version: 1.4
Summary: backports.functools_lru_cache
Home-page: https://github.com/jaraco/backports.functools_lru_cache
Author: Jason R. Coombs
Author-email: jaraco@jaraco.com
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Usage
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Consider using this technique for importing the 'lru_cache' function:

    try:
        from functools import lru_cache
    except ImportError:
        from backports.functools_lru_cache import lru_cache

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Requires-Python: >=2.6

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* /opt/cola/permits/1100839934_1602901352.24/0/backports-functools-lru-cache-1.4.tar.gz/backports.functools_lru_cache-1.4/PKG-INFO

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*
*@(#)bitstring.h	8.1 (Berkeley) 7/19/93
*/

1.2581 mdadm 4.1 rc1_2.el7

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1.2585 pyasn1 0.0.12a

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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<th>Year</th>
<th>Owner</th>
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<td>CWI</td>
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2.1  2.0+1.6.1  2001  PSF  no
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2.2  2.1.1  2001  PSF  yes
2.1.2  2.1.1  2002  PSF  yes
2.2.1  2.2  2002  PSF  yes
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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
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<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
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Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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--- end ---

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//
//
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined:_MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant {
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_> {
  static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type {
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> { };
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
, typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first; }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
  typedef T type;
  const T& operator()(const T& x) const
  { return x; }
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {
#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
===========================================================================
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and comments are changed accordingly.

Index: boost/mpl/print.hpp
{ #if defined(BOOST_MSVC)   enum { n = sizeof(T) + -1 }; #elif defined(__MWERKS__)   void f(int); -#else -    enum { -# if defined(__EDG_VERSION__) -        aux::dependent_unsigned<T>::value > -1 -# else -        sizeof(T) > -1 -# endif -    }; -#endif +#elif defined(__EDG_VERSION__) +    enum { n = aux::dependent_unsigned<T>::value > -1 }; +#elif defined(BOOST_GCC) +    enum { n1 }; +    enum { n2 }; +    enum { n = n1 != n2 }; +#else +    enum { n = sizeof(T) > -1 }; +#endif }

#if defined(BOOST_MSVC)
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#endif

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

#endif
namespace boost {
namespace container {
namespace container_detail {

    template <class T, T val>
    struct integral_constant {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_> {
        static const bool value = C_; 
        operator bool() const { return bool_::value; }
    };

    typedef bool_<true> true_;
    typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

    typedef char yes_type;
    struct no_type {
        char padding[8];
    };

    template <bool B, class T = void>
    struct enable_if_c {
        typedef T type;
    };

    template <class T>
    struct enable_if_c<false, T> {};

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {};

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {};

    template <bool B, class T = void>
    struct disable_if_c : public enable_if_c<!B, T> {};

    template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
  enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
  bool C
  , typename T1
  , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
  , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
  , typename T2
  , typename T3
>
struct if_<
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first;  }
}
const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template<typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

/*\n +\n  Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
 */

This is Release 2.4 of Jam/MR, a make-like program.

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#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template < bool C_ >
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

} // namespace detail
} // namespace intrusive
} // namespace boost

#endif
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T>{};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<bool C, typename T1, typename T2>
struct if_c
{
    typedef T1 type;
};

template<typename T1, typename T2>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<typename C, typename T1, typename T2>
struct if_
{
typedef typename if_c<0 != C::value, T1, T2>::type type;

}

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{
};

template<
    typename C
 , typename T1
 , typename T2
>
struct eval_if
 : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TTDECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(*)>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(...)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(...)>
{ static const bool value = true; };

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>    
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>    
{ static const bool value = true; };

#endif
#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

#endif
template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...))
{
    static const bool value = true;
}
#endif

template<typename T>
struct is_unary_or_binary_function_impl<T&>
{
    static const bool value = false;
};

template<typename T>
struct is_unary_or_binary_function
{
    static const bool value = is_unary_or_binary_function_impl<T>::value;
};

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template<typename T>
struct alignment_of;

template<typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template<unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template<typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
    < sizeof(alignment_of_hack<T>) - sizeof(T)
    , sizeof(T)
    >::value;
};

template<typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;  }

template<typename T>
struct remove_const
{  typedef T type;  }

template<typename T>
struct remove_const<const T>
{  typedef T type;  }

template<typename T>
struct remove_cv
{  typedef T type;  }

template<typename T>
struct remove_cv<const T>
{  typedef T type;  }

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  }

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  }

template<class T>
struct remove_reference
{  typedef T type;  }

template<class T>
struct remove_reference<T&>
typedef T type;
;
template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; }

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
    
    template<std::size_t S>
    struct ls_zeros
    {
        static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
    
    template<>
    struct ls_zeros<0>
    {
        static const std::size_t value = 0;
    
    template<>
    struct ls_zeros<1>
    {
        static const std::size_t value = 0;
    
} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#ifndef //BOOST_INTRUSIVE_DETAIL_MPL_HPP

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

Copyright 2007 John Maddock.
All the value based traits in this library conform to MPL's requirements for an Integral Constant type; that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).

---

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// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
        " << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
"<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<html>
<head>
<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</H1>
<H2>Contents</h2>
<pre><a href="#input">Input Information</a>
<a href="#summary">Licence Summary</a>
<a href="#details">Licence Details</a>
<a href="#files">Files with no recognised license</a>
<a href="#authors">Files with no recognised copyright holder</a>
<a href="#depend">File Dependency Information</a>
</pre>
while(i != j)
{
   title:
   os << " <A href="/"#input\"">Input Information</a>";
   if(!m_bsl_summary_mode)
      os << " <a href="/"#summary\"">Licence Summary</a>";
   os << " <a href="/"#details\"">Licence Details</a>";

   os << " <a href="/"#files\"">Files with no recognised license</a>";
   os << " <a href="/"#authors\"">Files with no recognised copyright holder</a>";
   if(!m_bsl_summary_mode)
      os << "Moving to the Boost Software License...
         <a href="/"#bsl-converted\"">Files that can be automatically converted to the Boost Software License</a>";
      os << " <a href="/"#to-bsl\"">Files that can be manually converted to the Boost Software License</a>";
      os << " <a href="/"#not-to-bsl\"">Files that can NOT be moved to the Boost Software License</a>";
      os << " <a href="/"#need-bsl-authors\"">Authors we need to move to the Boost Software License</a>";
      os << " <a href="/"#copyright\"">Copyright Holder Information</a>";
   }
   os << " <a href="/"#depend\"">File Dependency Information</a>";
"</pre>"

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>
else
  os << "<P>The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>
  ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
// fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("\d+"version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
  os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n"
}

//
// output each license:
//
// i = m_license_data.begin();
// j = m_license_data.end();
// if(!m_bsl_summary_mode)
{
  //
  // start with the summary:
  //
  os << "<a name="summary"></a><h2>Licence Summary</h2>
  while(i != j)
  {
  //
// title:
os << "<H3></H3>" << licenses.first[i->first].license_name << "</H3><br>

// license text:
os << "<BLOCKQUOTE></BLOCKQUOTE>

// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) > (see details)</a>

++i;
} }

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j) {

// title:
os << "<H3><A name="make_link_target(licenses.first[i->first].license_name)"></a>" << licenses.first[i->first].license_name << "</H3><br>

// license text:
os << "<BLOCKQUOTE></BLOCKQUOTE>

if(!m_bsl_summary_mode || (license_index >= 3)) {

// Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:<P><BLOCKQUOTE></BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n) {
   os << *m << "<BR><br>
   ++m;
}
os << "</P></BLOCKQUOTE><br>

// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:<P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n) {
    os << split_path(m_boost_path, *m) << "<br/>
    ++m;
}
else {
    os << "<p>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</p>\n";
    os << "<p>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</p>\n";
}
++license_index;
++i;
} // Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</p><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</p>\n"<BLOCKQUOTE><p>"

i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode) {
    // Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
//
// os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>" << "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:<p>
if (!m_converted_to_bsl.empty())
{
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "<p>["] << file_num << " ] File: <tt>" << split_path(m_boost_path, i->first)
    << " </tt><br><tt>\n  <tr><td><pre>" << i->second.first << " </pre></td>
    << i->second.second << " </pre></td><tr><\n</table><\n";
++i;
++file_num;
}
}

// Output list of files that could be moved over to the Boost Software License
//
// os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>" << "<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:<p><BLOCKQUOTE><p>
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br><\n";
    ++i2;
}
ns << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License
//
// os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software
License</h2>" << "<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:<p><BLOCKQUOTE><p>
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
// Output list of authors that we need permission for to move to the BSL.
//
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p><p></p>

// output a table of copyright information:
//
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>"));

// output file dependency information:
//
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
while(fi != efi)
{
    os << "<td><tr>" << fi->first << "</td><tr>";
    std::set<fs::path, path_less>::const_iterator f1, e1;
f1 = fi->second.begin();
e1 = fi->second.end();
while(f1 != e1)
{
    os << split_path(m_boost_path, *f1) << " ";
    ++f1;
}
    os << "</td></tr><br>";
    ++fi;
}
    os << "</table><br>";

// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P><\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
    while(true)
    {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
        else
            os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
        {
            os << "<I>(Circular dependency!)</I>";
            break; // circular dependency!!!
        }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
    }
    os << "\n";
}
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1.2597 tblib 1.7.0
1.2597.1 Available under license :

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1.2598 redhat-lsb 4.1 27.el7.centos.1

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1.2599 jersey-test-framework-core 1.9

1.2600 ruby 2.4.5

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* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

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  * open3

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* a patch for numeric.c

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  * POP3S support

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  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
* shell/*
* thwait.rb
* tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nrf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)
* committer
* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
* documentation

K.Kosako (kosako)
* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

Marc-Andre Lafontune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
  * net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm
Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*
Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the "patch monster"
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)
NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation
The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*_.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibley

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb

Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
* committer
* He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
* committer
* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
* He wrote and is the maintainer of rss/*

David Symonds
* documentation

== T

TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c
Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
* ftools (1.8)
* tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop
# frozen_string_literal: true
require 'rubygems/text'

class Gem::Licenses
extend Gem::Text

NONSTANDARD = 'Nonstandard'.freeze

# Software Package Data Exchange (SPDX) standard open-source software
# license identifiers
LICENSE_IDENTIFIERS = %w(
  0BSD
  AAL
  ADSL
  AFL-1.1
  AFL-1.2
  AFL-2.0
  AFL-2.1
  AFL-3.0
  AGPL-1.0
  AGPL-3.0
  AGPL-3.0-only
  AGPL-3.0-or-later
  AMDPLPA
  AML
  AMPAS
  ANTLR-PD
  APAFML
  APL-1.0
  APSL-1.0
  APSL-1.1
  APSL-1.2
  APSL-2.0
  Abstyles
Adobe-2006
Adobe-Glyph
Afmparse
Aladdin
Apache-1.0
Apache-1.1
Apache-2.0
Artistic-1.0
Artistic-1.0-Perl
Artistic-1.0-cl8
Artistic-2.0
BSD-1-Clause
BSD-2-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-2-Clause-Patent
BSD-3-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-3-Clause-No-Nuclear-License
BSD-3-Clause-No-Nuclear-License-2014
BSD-3-Clause-No-Nuclear-Warranty
BSD-4-Clause
BSD-4-Clause-UC
BSD-Protection
BSD-Source-Code
BSL-1.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
CC-BY-NC-SA-2.5
CC-BY-NC-SA-3.0
CC-BY-NC-SA-4.0
CC-BY-ND-1.0
CC-BY-ND-2.0
CC-BY-ND-2.5
CC-BY-ND-3.0
CC-BY-ND-4.0
CC-BY-SA-1.0
CC-BY-SA-2.0
CC-BY-SA-2.5
CC-BY-SA-3.0
CC-BY-SA-4.0
CC0-1.0
CDDL-1.0
CDDL-1.1
CDLA-Permissive-1.0
CDLA-Sharing-1.0
CECILL-1.0
CECILL-1.1
CECILL-2.0
CECILL-2.1
CECILL-B
CECILL-C
CNRI-Jython
CNRI-Python
CNRI-Python-GPL-Compatible
CPAL-1.0
CPL-1.0
CPOL-1.02
CUA-OPL-1.0
Caldera
CIArtistic
Condor-1.1
Crossword
CrystalStacker
Cube
D-FSL-1.0
DOC
DSDP
Dotseqn
ECL-1.0
ECL-2.0
EFL-1.0
EFL-2.0
EPL-1.0
EPL-2.0
EUDatagrid
EUPL-1.0
EUPL-1.1
EUPL-1.2
Entessa
ErIPL-1.1
Eurosym
FSFAP
FSFUL
FSFULLR
FTL
Fair
Frameworx-1.0
FreeImage
GFDDL-1.1
GFDDL-1.1-only
GFDDL-1.1-or-later
GFDDL-1.2
GFDDL-1.2-only
GFDDL-1.2-or-later
GFDDL-1.3
GFDDL-1.3-only
GFDDL-1.3-or-later
GL2PS
GPL-1.0
GPL-1.0+
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0
GPL-2.0+
GPL-2.0-only
GPL-2.0-or-later
GPL-2.0-with-GCC-exception
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-3.0
GPL-3.0+
GPL-3.0-only
GPL-3.0-or-later
GPL-3.0-with-GCC-exception
GPL-3.0-with-autoconf-exception
Giftware
Glide
Glulxe
HPND
HaskellReport
IBM-pibs
ICU
IJG
IPA
IPL-1.0
ISC
ImageMagick
Imlib2
Info-ZIP
Intel
Intel-ACPI
Interbase-1.0
JSON
JasPer-2.0
LAL-1.2
LAL-1.3
LGPL-2.0
LGPL-2.0+
LGPL-2.0-only
LGPL-2.0-or-later
LGPL-2.1
LGPL-2.1+
LGPL-2.1-only
LGPL-2.1-or-later
LGPL-3.0
LGPL-3.0+
LGPL-3.0-only
LGPL-3.0-or-later
LGPLLR
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
LPPL-1.2
LPPL-1.3a
LPPL-1.3c
Latex2e
Leptonica
LiLiQ-P-1.1
LiLiQ-R-1.1
LiLiQ-Rplus-1.1
Libpng
MIT
MIT-CMU
MIT-advertising
MIT-enna
MIT-feh
MITNFA
MPL-1.0
MPL-1.1
MPL-2.0
MPL-2.0-no-copyleft-exception
MS-PL
MS-RL
MTLL
MakeIndex
MirOS
Motosoto
Multics
Mup
NASA-1.3
NBPL-1.0
NCSA
NGPL
NLOD-1.0
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSL-3.0
NRL
NTP
Naumen
Net-SNMP
NetCDF
Newsletr
Nokia
Noweb
Nunit
OCCT-PL
OCLC-2.0
ODbl-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0
OLDAP-2.0.1
OLDAP-2.1
OLDAP-2.2
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SMPPPL
SNIA
SPL-1.0
SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
StandardML-NJ
SugarCRM-1.1.3
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
UPL-1.0
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
VOSTROM
VSL-1.0
Vim
W3C
W3C-19980720
W3C-20150513
WTFPL
Watcom-1.0
Wsuipa
X11
XFRee86-1.1
XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
curl
diffmark
dvipdfm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
wxWindows
xinetd
xpp
zlib-acknowledgement
)
).freeze

# exception identifiers
EXCEPTION_IDENTIFIERS = %w(
  389-exception
  Autoconf-exception-2.0
  Autoconf-exception-3.0
  Bison-exception-2.2
  Bootloader-exception
  CLISP-exception-2.0
  Classpath-exception-2.0
  DigiRule-FOSS-exception
  FLTK-exception
  Fawkes-Runtime-exception
  Font-exception-2.0
  GCC-exception-2.0
  GCC-exception-3.1
  LZMA-exception
  Libtool-exception
  Linux-syscall-note
  Nokia-Qt-exception-1.1
  OCCT-exception-1.0
  Qwt-exception-1.0
  WXWindows-exception-3.1
  eCos-exception-2.0
  freertos-exception-2.0
  gnu-javamail-exception
  i2p-gpl-java-exception
  mif-exception
  openvpn-openssl-exception
  u-boot-exception-2.0
).freeze

REGEXP = %r{
  \A
  (\A
    #{Regexp.union(LICENSE_IDENTIFIERS)}
  \)+?
def self.match?(license)
  !REGEXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = LICENSE_IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end

test-unit is copyrighted free software by Kouhei Sutou
<kou@cozmixng.org>, Ryan Davis <ryand-ruby@zenspider.com>
and Nathaniel Talbott <nathaniel@talbott.ws>.

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RSpec.describe "bundle licenses" do
  before :each do
    install_gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
    G
  end

  it "prints license information for all gems in the bundle" do
    bundle "licenses"
    loaded_bundler_spec = Bundler.load.specs["bundler"]
    expected = if !loaded_bundler_spec.empty?
      loaded_bundler_spec[0].license
    else
      "Unknown"
    end
    expect(out).to include("bundler: #{expected}")
    expect(out).to include("with_license: MIT")
  end

  it "performs an automatic bundle install" do
    gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
      gem "foo"
    G
    bundle "config auto_install 1"
    bundle :licenses
    expect(out).to include("Installing foo 1.0")
  end
end

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enc/trans/GB/GB12345%UCS.src::
enc/trans/GB/UCS%GB12345.src::
enc/trans/GB/GB2312%UCS.src::
enc/trans/GB/UCS%GB2312.src::
```

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```plaintext
enc/trans/JIS/JISX0201-KANA%UCS.src::
enc/trans/JIS/JISX0208@1990%UCS.src::
enc/trans/JIS/JISX0212%UCS.src::
enc/trans/JIS/UCS%JISX0201-KANA.src::
enc/trans/JIS/UCS%JISX0208@1990.src::
enc/trans/JIS/UCS%JISX0212.src::
```

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enc/trans/JIS/JISX0213-1%UCS@BMP.src::
enc/trans/JIS/JISX0213-1%UCS@SIP.src::
enc/trans/JIS/JISX0213-2%UCS@BMP.src::
enc/trans/JIS/JISX0213-2%UCS@SIP.src::
```

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>>> A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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missing/dup2.c::
missing/erf.c::
missing/finite.c::
missing/hypot.c::
missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
missing/tgamma.c::
ext/date/date_strftime.c::
ext/digest/sha1/sha1.c::
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ext/sdbm/_sdbm.c::
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How to Apply These Terms to Your New Programs

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.2612 jersey-entity-filtering 2.25
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util  

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api  

------

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.2614 perl 5.16.3 294.el7_6

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From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?=
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---

hv.c | 6 ++++++
sv.c | 7 +++++---
t/op/svleak.t | 22 +++++++++++++++++++++++++++++++++--
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
+	ENTER;
	SAVEFREESV(hv);
+
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
+
Hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;

diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
 Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
}
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
+ new_SV(sv);
- /* SV_GMAGIC is the default for sv_setsv() */
- SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
   with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
return sv;
}

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APItest not available");}
@@ -176,3 +176,23 @@ leak(2, 0, sub {
 each %$h;
 undef $h;
}, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+ sub TIEHASH { bless [] }
+ sub STORE   { $_[0][0]{$_[1]} = $_[2] }
+ sub FETCH   { die if $explosive; $_[0][0]{$_[1]} }}
+ sub FIRSTKEY { keys %$_[0][0]; each %$_[0][0] }
+ sub NEXTKEY { each %$_[0][0] }
+}
+leak(2,!!$Config{mad}, sub {
+ eval q`
+ BEGIN {
+ $hhtie::explosive = 0;
+ tie %*$H, hhtie;
+ $*H{foo} = bar;
+ $hhtie::explosive = 1;
+ }`
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.,"
builtRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
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use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#

{my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'perl',
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
   "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.
Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must
be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one
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1.2618 swagger-annotations 1.5.17

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package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     */
}
```
* @return an optional URL for the license.
*/

String url() default "";

---

### 1.2619 arrow-vector 0.8.0

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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/HttpHeaders.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/Util.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/HttpCodec.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/OkHostnameVerifier.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/Dns.java
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.eclipse.jetty.toolchain:jetty-schemas

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:
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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]j0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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Preamble

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver
Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

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for his work on the budget drivers, the demux code,
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Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkruufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

Linux driver for the IDT77201 NICStAR PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996

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QLogic Linux Networking HBA Driver

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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class spec {

    license information for the exposed API.

    // For more information: http://go.gl/8us55a/licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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1.2666 tomli 1.2.1

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1.2668 tunny 0.0.0-20161022001056-c757dde1c296
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1.2669 perl 3.90-144.el6
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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n\n\nModule-Build mailing list at <module-build@perl.org>.'\n
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4

name: Module-Build

resources:
MailingList: mailto:module-build@perl.org
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<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message $copyright_msg";

  $year;
}
sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}/i
    or die "Copyright statement not found in perl -v output $output";

    $year;
}

1.2670 dc 1.3
1.2670.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Example/AppDelegate.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/AppDelegate.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Swift/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Swift/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/ExampleTests/ExampleTests.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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<string>The DCPathButton use the MIT license</string>

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewContoller.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewContoller.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist

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Pod::Spec.new do |
s.name          = "DCPathButton"
s.version       = "2.1.1"
s.summary       = "A beautiful button copy from Path®"

s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®.
Since Path® 4.0, it return to use a tab bar instead of a side bar,
and also change the menu button. So I try to implement it and then
the DCPathButton born :)  
DESC

s.homepage      = "https://github.com/Tangdixi/DCPathButton"

s.license       = {
:type => 'MIT',
The MIT License (MIT)

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1.2676 python-pyasn1 0.0.12a 1.el6

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1.2677 msg-simple 1.1

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public domain. The `__version__.py` that it creates is also in the public
# This file is released into the public domain. Generated by

Found in path(s):
* /opt/cola/permits/1156186043_1619141952.34/0/anaconda-platform-clyent-1-2-2-0-gb8ce94e-tar-gz/Anaconda-
Platform-clyent-e855264/versioneer.py
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{% set data = load_setuptools() %}
package:
  name: {{data.get('name')}}
  version: {{data.get('version')}}

build:
  number: {{environ.get('BINSTAR_BUILD_MAJOR', 1)}}

requirements:
  build:
    - python
    - setuptools
  run:
    - python

about:
  home: {{data.get('url')}}
  license: {{data.get('license')}}
1.2681 simplegeneric 0.8.1

1.2681.1 Available under license:

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Development Status :: 6 - Mature
Development Status :: 7 - Inactive
Intended Audience :: Developers
License :: OSI Approved :: Zope Public License
Programming Language :: Python
Programming Language :: Python :: 2
Programming Language :: Python :: 2.4
Programming Language :: Python :: 2.5
Programming Language :: Python :: 2.6
Programming Language :: Python :: 2.7
Programming Language :: Python :: 3
Operating System :: OS Independent
Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1026829156_1591848863.04/0/simplegeneric-0.8.1-zip/simplegeneric-0.8.1/classifiers.txt
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License: ZPL 2.1
Classifier: License :: OSI Approved :: Zope Public License

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1026829156_1591848863.04/0/simplegeneric-0.8.1-zip/simplegeneric-0.8.1/PKG-INFO
  * /opt/ws_local/PERMITS_SQL/1026829156_1591848863.04/0/simplegeneric-0.8.1-zip/simplegeneric-0.8.1/simplegeneric.egg-info/PKG-INFO

1.2682 xz 5.2.5-r0

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package (but check the individual files to be sure!):

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.,"
built_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }
if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s  
        or die "Year not found in README copyright message \'$copyright_msg\’";

    $year
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\d\d\d\d\b/;
    or die "Copyright statement not found in perl -v output $output";

$year;
}

1.2697 lua 5.1.4 14.el7

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ISO C9x compliant stdint.h for Microsoft Visual Studio
Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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1.2710 libtiff 4.0.6

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1.2711 html5lib 1.1
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1.2712 retry 0.9.2
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1.2713 zlib 1.2.8

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1.2714 pip 6.0.8
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

Assorted

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1.2716 coreutils 8.22
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1.2727 sqlite 3.32.1-r0

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1.2729 grub2 2.02-0.87.0.13.el7_9.6

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1.2732 tigervnc 1.8.0 13.el7

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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Gocheck - A rich testing framework for Go

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1.2751 lz4-java 1.4.1

1.2752 x-text 0.3.4
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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: golang.org/x/text
Source: https://go.googlesource.com/text/
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Files: *
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package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsRequest;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetClusterMetricsRequestPBImpl extends GetClusterMetricsRequest {
    GetClusterMetricsRequestProto proto = GetClusterMetricsRequestProto.getDefaultInstance();
    GetClusterMetricsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public GetClusterMetricsRequestPBImpl() {
        builder = GetClusterMetricsRequestProto.newBuilder();
    }

    public GetClusterMetricsRequestPBImpl(GetClusterMetricsRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }
}
public GetClusterMetricsRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@override
public int hashCode() {
    return getProto().hashCode();
}

@override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.EnumSet;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesRequest;
import org.apache.hadoop.yarn.api.records.NodeState;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetClusterNodesRequestPBImpl extends GetClusterNodesRequest {

GetClusterNodesRequestProto proto = GetClusterNodesRequestProto.getDefaultInstance();
GetClusterNodesRequestProto.Builder builder = null;
boolean viaProto = false;

private EnumSet<NodeState> states = null;

public GetClusterNodesRequestPBImpl() {
    builder = GetClusterNodesRequestProto.newBuilder();
}

public GetClusterNodesRequestPBImpl(GetClusterNodesRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetClusterNodesRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public EnumSet<NodeState> getNodeStates() {
    initNodeStates();
    return this.states;
}

@Override
public void setNodeStates(final EnumSet<NodeState> states) {

initNodeStates();
this.states.clear();
if (states == null) {
    return;
}
this.states.addAll(states);
}

private void mergeLocalToProto() {
    if (viaProto) {
        maybeInitBuilder();
    }
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetClusterNodesRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private void mergeLocalToBuilder() {
    if (this.states != null) {
        maybeInitBuilder();
        builder.clearNodeStates();
        Iterable<NodeStateProto> iterable = new Iterable<NodeStateProto>() {
            @Override
            public Iterator<NodeStateProto> iterator() {
                return new Iterator<NodeStateProto>() {
                    Iterator<NodeState> iter = states.iterator();
                    @Override
                    public boolean hasNext() {
                        return iter.hasNext();
                    }
                    @Override
                    public NodeStateProto next() {
                        return ProtoUtils.convertToProtoFormat(iter.next());
                    }
                    @Override
                    public void remove() {
                        throw new UnsupportedOperationException();
                    }
                };
            }
            @Override
            public boolean hasNext() {
                throw new UnsupportedOperationException();
            }
            @Override
            public NodeStateProto next() {
                throw new UnsupportedOperationException();
            }
            @Override
            public void remove() {
                throw new UnsupportedOperationException();
            }
        };
    }
}

@Override
public Iterator<NodeStateProto> iterator() {
    return new Iterator<NodeStateProto>() {
        Iterator<NodeState> iter = states.iterator();

        @Override
        public boolean hasNext() {
            return iter.hasNext();
        }

        @Override
        public NodeStateProto next() {
            return ProtoUtils.convertToProtoFormat(iter.next());
        }

        @Override
        public void remove() {
            throw new UnsupportedOperationException();
        }
    };
private void initNodeStates() {
    if (this.states != null) {
        return;
    }
    GetClusterNodesRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<NodeStateProto> list = p.getNodeStatesList();
    this.states = EnumSet.noneOf(NodeState.class);

    for (NodeStateProto c : list) {
        this.states.add(ProtoUtils.convertFromProtoFormat(c));
    }
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterRequest;
import org.apache.hadoop.yarn.api.records.FinalApplicationStatus;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import org.apache.hadoop.yarn.proto.YarnProtos.FinalApplicationStatusProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class FinishApplicationMasterRequestPBImpl extends FinishApplicationMasterRequest {
    FinishApplicationMasterRequestProto proto = FinishApplicationMasterRequestProto.getDefaultInstance();
    FinishApplicationMasterRequestProto.Builder builder = null;
    boolean viaProto = false;

    public FinishApplicationMasterRequestPBImpl() {
        builder = FinishApplicationMasterRequestProto.newBuilder();
    }

    public FinishApplicationMasterRequestPBImpl(FinishApplicationMasterRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public FinishApplicationMasterRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }
public int hashCode() {
    return getProto().hashCode();
}

public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = FinishApplicationMasterRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

public String getDiagnostics() {
    FinishApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getDiagnostics();
}

public void setDiagnostics(String diagnostics) {
}
maybeInitBuilder();
if (diagnostics == null) {
    builder.clearDiagnostics();
    return;
}
builder.setDiagnostics(diagnostics);

@Override
public String getTrackingUrl() {
    FinishApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getTrackingUrl();
}

@Override
public void setTrackingUrl(String url) {
    maybeInitBuilder();
    if (url == null) {
        builder.clearTrackingUrl();
        return;
    }
    builder.setTrackingUrl(url);
}

@Override
public FinalApplicationStatus getFinalApplicationStatus() {
    FinishApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasFinalApplicationStatus()) {
        return null;
    }
    return convertFromProtoFormat(p.getFinalApplicationStatus());
}

@Override
public void setFinalApplicationStatus(FinalApplicationStatus finalState) {
    maybeInitBuilder();
    if (finalState == null) {
        builder.clearFinalApplicationStatus();
        return;
    }
    builder.setFinalApplicationStatus(convertToProtoFormat(finalState));
}

private FinalApplicationStatus convertFromProtoFormat(FinalApplicationStatusProto s) {
    return ProtoUtils.convertFromProtoFormat(s);
}

private FinalApplicationStatusProto convertToProtoFormat(FinalApplicationStatus s) {

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetClusterNodesResponsePBImpl extends GetClusterNodesResponse Impl {

    GetClusterNodesResponseProto proto =
    GetClusterNodesResponseProto.getDefaultInstance();
    GetClusterNodesResponseProto.Builder builder = null;
    boolean viaProto = false;

    return ProtoUtils.convertToProtoFormat(s);
}

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 */
List<NodeReport> nodeManagerInfoList;

public GetClusterNodesResponsePBImpl() {
    builder = GetClusterNodesResponseProto.newBuilder();
}

public GetClusterNodesResponsePBImpl(GetClusterNodesResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public List<NodeReport> getNodeReports() {
    initLocalNodeManagerInfosList();
    return this.nodeManagerInfoList;
}

@Override
public void setNodeReports(List<NodeReport> nodeManagers) {
    if (nodeManagers == null) {
        builder.clearNodeReports();
    }
    this.nodeManagerInfoList = nodeManagers;
}

public GetClusterNodesResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

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@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.nodeManagerInfoList != null) {
        addLocalNodeManagerInfosToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetClusterNodesResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private void initLocalNodeManagerInfosList() {
    if (this.nodeManagerInfoList != null) {
        return;
    }
    GetClusterNodesResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<NodeReportProto> list = p.getNodeReportsList();
    nodeManagerInfoList = new ArrayList<NodeReport>();
    for (NodeReportProto a : list) {
        nodeManagerInfoList.add(convertFromProtoFormat(a));
    }
}

private void addLocalNodeManagerInfosToProto() {
    maybeInitBuilder();
    builder.clearNodeReports();
    if (nodeManagerInfoList == null)
        return;
    Iterable<NodeReportProto> iterable = new Iterable<NodeReportProto>() {
        @Override

    }

public Iterator<NodeReportProto> iterator() {
    return new Iterator<NodeReportProto>() {

        Iterator<NodeReport> iter = nodeManagerInfoList.iterator();

        @Override
        public boolean hasNext() {
            return iter.hasNext();
        }

        @Override
        public NodeReportProto next() {
            return convertToProtoFormat(iter.next());
        }

        @Override
        public void remove() {
            throw new UnsupportedOperationException();
        }
    };

    builder.addAllNodeReports(iterable);
}

private NodeReportPBImpl convertFromProtoFormat(NodeReportProto p) {
    return new NodeReportPBImpl(p);
}

private NodeReportProto convertToProtoFormat(NodeReport t) {
    return ((NodeReportPBImpl)t).getProto();
}

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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.SerializedException;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import org.apache.hadoop.yarn.api.records.impl.pb.SerializedExceptionPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.SerializedExceptionProto;
import org.apache.hadoop.yarn.proto.YarnProtos.StringBytesMapProto;

import com.google.protobuf.ByteString;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StartContainersResponsePBImpl extends StartContainersResponse {
    StartContainersResponseProto proto = StartContainersResponseProto.getDefaultInstance();
    StartContainersResponseProto.Builder builder = null;
    boolean viaProto = false;

    private Map<String, ByteBuffer> servicesMetaData = null;
    private List<ContainerId> succeededContainers = null;
    private Map<ContainerId, SerializedException> failedContainers = null;

    public StartContainersResponsePBImpl() {
        builder = StartContainersResponseProto.newBuilder();
    }
}
public StartContainersResponsePBImpl(StartContainersResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public StartContainersResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.servicesMetaData != null) {
        addServicesMetaDataToProto();
    }
    if (this.succeededContainers != null) {
        addSucceededContainersToProto();
    }
    if (this.failedContainers != null) {
        addFailedContainersToProto();
    }
}

protected final ByteBuffer convertFromProtoFormat(ByteString byteString) {
    return ProtoUtils.convertFromProtoFormat(byteString);
}
protected final ByteString convertToProtoFormat(ByteBuffer byteBuffer) {
    return ProtoUtils.convertToProtoFormat(byteBuffer);
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

private SerializedExceptionPBImpl convertFromProtoFormat(SerializedExceptionProto p) {
    return new SerializedExceptionPBImpl(p);
}

private SerializedExceptionProto convertToProtoFormat(SerializedException t) {
    return ((SerializedExceptionPBImpl) t).getProto();
}

private void mergeLocalToProto() {
    if (viaProto) {
        maybeInitBuilder();
    }
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StartContainersResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public Map<String, ByteBuffer> getAllServicesMetaData() {
    initServicesMetaData();
    return this.servicesMetaData;
}

@Override
public void setAllServicesMetaData(Map<String, ByteBuffer> servicesMetaData) {
    if (servicesMetaData == null) {
        return;
    }
}
private void initServicesMetaData() {
    if (this.servicesMetaData != null) {
        return;
    }
    StartContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<StringBytesMapProto> list = p.getServicesMetaDataList();
    this.servicesMetaData = new HashMap<String, ByteBuffer>();
    for (StringBytesMapProto c : list) {
        this.servicesMetaData.put(c.getKey(),
                                convertFromProtoFormat(c.getValue()));
    }
}

private void addServicesMetaDataToProto() {
    maybeInitBuilder();
    builder.clearServicesMetaData();
    if (servicesMetaData == null)
        return;
    Iterable<StringBytesMapProto> iterable =
        new Iterable<StringBytesMapProto>() {
            @Override
            public Iterator<StringBytesMapProto> iterator() {
                return new Iterator<StringBytesMapProto>() {
                    Iterator<String> keyIter = servicesMetaData.keySet().iterator();

                    @Override
                    public void remove() {
                        throw new UnsupportedOperationException();
                    }

                    @Override
                    public StringBytesMapProto next() {
                        String key = keyIter.next();
                        return StringBytesMapProto.newBuilder().setKey(key)
                                .setValue(convertToProtoFormat(servicesMetaData.get(key)))
                                .build();
                    }
                };
            }

            @Override
            public boolean hasNext() {
                return keyIter.hasNext();
            }

            @Override
            public void remove() {
                throw new UnsupportedOperationException();
            }
        };

    for (StringBytesMapProto c : iterable) {
        builder.getServicesMetaDataList().add(c);
    }
}
public boolean hasNext() {
    return keyIter.hasNext();
}
};
}
}
builder.addAllServicesMetaData(iterable);
}

private void addFailedContainersToProto() {
    maybeInitBuilder();
    builder.clearFailedRequests();
    if (this.failedContainers == null)
        return;
    List<ContainerExceptionMapProto> protoList =
        new ArrayList<ContainerExceptionMapProto>();
    for (Map.Entry<ContainerId, SerializedException> entry : this.failedContainers .entrySet()) {
        protoList.add(ContainerExceptionMapProto.newBuilder() .setContainerId(convertToProtoFormat(entry.getKey())) .setException(convertToProtoFormat(entry.getValue())).build());
    }
    builder.addAllFailedRequests(protoList);
}

private void addSucceededContainersToProto() {
    maybeInitBuilder();
    builder.clearSucceededRequests();
    if (this.succeededContainers == null) {
        return;
    }
    Iterable<ContainerIdProto> iterable = new Iterable<ContainerIdProto>() {
        @Override
        public Iterator<ContainerIdProto> iterator() {
            return new Iterator<ContainerIdProto>() {
                Iterator<ContainerId> iter = succeededContainers.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ContainerIdProto next() {
                    return convertToProtoFormat(iter.next());
                }

                Iterator<ContainerId> iter = succeededContainers.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ContainerIdProto next() {
                    return convertToProtoFormat(iter.next());
                }
            };
        }
    };
    };
}
@Override
public void remove() {
    throw new UnsupportedOperationException();
}

private void initSucceededContainers() {
    if (this.succeededContainers != null)
        return;
    StartContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> list = p.getSucceededRequestsList();
    this.succeededContainers = new ArrayList<ContainerId>();
    for (ContainerIdProto c : list) {
        this.succeededContainers.add(convertFromProtoFormat(c));
    }
}

@Override
public List<ContainerId> getSuccessfullyStartedContainers() {
    initSucceededContainers();
    return this.succeededContainers;
}

@Override
public void setSuccessfullyStartedContainers(
    List<ContainerId> succeededContainers) {
    maybeInitBuilder();
    if (succeededContainers == null) {
        builder.clearSucceededRequests();
    }
    this.succeededContainers = succeededContainers;
}

private void initFailedContainers() {
    if (this.failedContainers != null) {
        return;
    } StartContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerExceptionMapProto> protoList = p.getFailedRequestsList();
    this.failedContainers = new HashMap<ContainerId, SerializedException>();
    for (ContainerExceptionMapProto ce : protoList) {
        this.failedContainers.put(convertFromProtoFormat(ce.getContainerId()),
            ce.getSerializedException());
    }
}
convertFromProtoFormat(ce.getException());
}
}

@Override
public Map<ContainerId, SerializedException> getFailedRequests() {
    initFailedContainers();
    return this.failedContainers;
}

@Override
public void setFailedRequests(
    Map<ContainerId, SerializedException> failedContainers) {
    maybeInitBuilder();
    if (failedContainers == null)
        builder.clearFailedRequests();
    this.failedContainers = failedContainers;
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsResponse;
import com.google.protobuf.TextFormat;
public class RefreshUserToGroupsMappingsResponsePBImpl extends RefreshUserToGroupsMappingsResponse {

    RefreshUserToGroupsMappingsResponseProto proto =
    RefreshUserToGroupsMappingsResponseProto.getDefaultInstance();
    RefreshUserToGroupsMappingsResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshUserToGroupsMappingsResponsePBImpl() {
        builder = RefreshUserToGroupsMappingsResponseProto.newBuilder();
    }

    public RefreshUserToGroupsMappingsResponsePBImpl(RefreshUserToGroupsMappingsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshUserToGroupsMappingsResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }

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*/

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshSuperUserGroupsConfigurationResponsePBImpl extends RefreshSuperUserGroupsConfigurationResponse {

    RefreshSuperUserGroupsConfigurationResponseProto proto =
    RefreshSuperUserGroupsConfigurationResponseProto.getDefaultInstance();
    RefreshSuperUserGroupsConfigurationResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshSuperUserGroupsConfigurationResponsePBImpl() {
        builder = RefreshSuperUserGroupsConfigurationResponseProto.newBuilder();
    }

    public RefreshSuperUserGroupsConfigurationResponsePBImpl(RefreshSuperUserGroupsConfigurationResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshSuperUserGroupsConfigurationResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
    }
viaProto = true;
return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class KillApplicationResponsePBImpl extends KillApplicationResponse {
    KillApplicationResponseProto proto = KillApplicationResponseProto.getDefaultInstance();
    KillApplicationResponseProto.Builder builder = null;
    boolean viaProto = false;

    public KillApplicationResponsePBImpl() {
        builder = KillApplicationResponseProto.newBuilder();
    }

    public KillApplicationResponsePBImpl(KillApplicationResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public KillApplicationResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }

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*/

package org.apache.hadoop.yarn.webapp.log;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.yarn.webapp.view.HtmlBlock;

@InterfaceAudience.LimitedPrivate({"YARN", "MapReduce"})
public class AggregatedLogsNavBlock extends HtmlBlock {

@Override
protected void render(Block html) {
    html
        .div("#nav")
        .h3()._("Logs")._() //
        ._();
}
}
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*/
package org.apache.hadoop.yarn.server.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufHelper;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshSuperUserGroupsConfigurationRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsRequest;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshAdminAclsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshAdminAclsResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshNodesRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshNodesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshQueuesRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshQueuesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshServiceAclsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshServiceAclsResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsResponsePBImpl;
import com.google.protobuf.ServiceException;

@Private
public class ResourceManagerAdministrationProtocolPBClientImpl implements ResourceManagerAdministrationProtocol, Closeable {

    private ResourceManagerAdministrationProtocolPB proxy;

    public ResourceManagerAdministrationProtocolPBClientImpl(long clientVersion, InetSocketAddress addr, Configuration conf) throws IOException {
        RPC.setProtocolEngine(conf, ResourceManagerAdministrationProtocolPB.class, ProtobufRpcEngine.class);
        proxy = (ResourceManagerAdministrationProtocolPB)RPC.getProxy(ResourceManagerAdministrationProtocolPB.class, clientVersion, addr, conf);
    }

    @Override
    public void close() {
        if (this.proxy != null) {
            RPC.stopProxy(this.proxy);
        }
    }

    @Override
    public RefreshQueuesResponse refreshQueues(RefreshQueuesRequest request) throws YarnException, IOException {
        RefreshQueuesRequestProto requestProto = ((RefreshQueuesRequestPBImpl)request).getProto();
        try {
            return new RefreshQueuesResponsePBImpl(proxy.refreshQueues(null, requestProto));
        } catch (ServiceException e) {
            RPCUtil.unwrapAndThrowException(e);
            return null;
        }
    }

    @Override
    public RefreshQueuesResponse refreshQueues(RefreshQueuesRequest request) throws YarnException, IOException {
        RefreshQueuesRequestProto requestProto = ((RefreshQueuesRequestPBImpl)request).getProto();
        try {
            return new RefreshQueuesResponsePBImpl(proxy.refreshQueues(null, requestProto));
        } catch (ServiceException e) {
            RPCUtil.unwrapAndThrowException(e);
            return null;
        }
    }

    @Override
public RefreshNodesResponse refreshNodes(RefreshNodesRequest request)
throws YarnException, IOException {
    RefreshNodesRequestProto requestProto =
    ((RefreshNodesRequestPBImpl)request).getProto();
    try {
        return new RefreshNodesResponsePBImpl(
            proxy.refreshNodes(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RefreshSuperUserGroupsConfigurationResponse refreshSuperUserGroupsConfiguration(
    RefreshSuperUserGroupsConfigurationRequest request)
throws YarnException, IOException {
    RefreshSuperUserGroupsConfigurationRequestProto requestProto =
    ((RefreshSuperUserGroupsConfigurationRequestPBImpl)request).getProto();
    try {
        return new RefreshSuperUserGroupsConfigurationResponsePBImpl(
            proxy.refreshSuperUserGroupsConfiguration(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RefreshUserToGroupsMappingsResponse refreshUserToGroupsMappings(
    RefreshUserToGroupsMappingsRequest request) throws YarnException,
IOException {
    RefreshUserToGroupsMappingsRequestProto requestProto =
    ((RefreshUserToGroupsMappingsRequestPBImpl)request).getProto();
    try {
        return new RefreshUserToGroupsMappingsResponsePBImpl(
            proxy.refreshUserToGroupsMappings(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RefreshAdminAclsResponse refreshAdminAcls(
    RefreshAdminAclsRequest request) throws YarnException, IOException {
    RefreshAdminAclsRequestProto requestProto =
    ((RefreshAdminAclsRequestPBImpl)request).getProto();
}
try {
    return new RefreshAdminAclsResponsePBImpl(
        proxy.refreshAdminAcls(null, requestProto));
} catch (ServiceException e) {
    RPCUtil.unwrapAndThrowException(e);
    return null;
}

@Override
public RefreshServiceAclsResponse refreshServiceAcls(
    RefreshServiceAclsRequest request) throws YarnException,
    IOException {
    RefreshServiceAclsRequestProto requestProto =
        ((RefreshServiceAclsRequestPBImpl)request).getProto();
    try {
        return new RefreshServiceAclsResponsePBImpl(proxy.refreshServiceAcls(
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public String[] getGroupsForUser(String user) throws IOException {
    GetGroupsForUserRequestProto requestProto =
        GetGroupsForUserRequestProto.newBuilder().setUser(user).build();
    try {
        GetGroupsForUserResponseProto responseProto =
            proxy.getGroupsForUser(null, requestProto);
        return (String[]) responseProto.getGroupsList().toArray(
            new String[responseProto.getGroupsCount()]);
    } catch (ServiceException e) {
        throw ProtobufHelper.getRemoteException(e);
    }
}

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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RenewDelegationTokenResponsePBImpl extends
    RenewDelegationTokenResponse {

    RenewDelegationTokenResponseProto proto =
        RenewDelegationTokenResponseProto.getDefaultInstance();
    RenewDelegationTokenResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RenewDelegationTokenResponsePBImpl() {
        this.builder = RenewDelegationTokenResponseProto.newBuilder();
    }

    public RenewDelegationTokenResponsePBImpl(
        RenewDelegationTokenResponseProto proto) {
        this.proto = proto;
        this.viaProto = true;
    }

    public RenewDelegationTokenResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }
@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RenewDelegationTokenResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public long getNextExpirationTime() {
    RenewDelegationTokenResponseProtoOrBuilder p = viaProto ? proto : builder;
    return p.getNewExpiryTime();
}

@Override
public void setNextExpirationTime(long expTime) {
    maybeInitBuilder();
    builder.setNewExpiryTime(expTime);
}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RenewDelegationTokenRequestPBImpl extends
   RenewDelegationTokenRequest {
   RenewDelegationTokenRequestProto proto =
   RenewDelegationTokenRequestProto.newBuilder().
   RenewDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
   if (this.token != null) {
      return this.token;
   } else {
      this.token = convertFromProtoFormat(p.getToken());
   }
   return this.token;
}

Token token;

@Override
public Token getDelegationToken() {
   RenewDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
   if (this.token != null) {
      return this.token;
   } else {
      this.token = convertFromProtoFormat(p.getToken());
   }
   return this.token;
}
@Override
public void setDelegationToken(Token token) {
    maybeInitBuilder();
    if (token == null)
        builder.clearToken();
    this.token = token;
}

public RenewDelegationTokenRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (token != null) {
        builder.setToken(convertToProtoFormat(this.token));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}
private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RenewDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private TokenPBImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class FinishApplicationMasterResponsePBImpl extends FinishApplicationMasterResponse {
    FinishApplicationMasterResponseProto proto = FinishApplicationMasterResponseProto.getDefaultInstance();
    FinishApplicationMasterResponseProto.Builder builder = null;
    boolean viaProto = false;

    public FinishApplicationMasterResponsePBImpl() {
        builder = FinishApplicationMasterResponseProto.newBuilder();
    }

    public FinishApplicationMasterResponsePBImpl(FinishApplicationMasterResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public FinishApplicationMasterResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }

    private void maybeInitBuilder() {
        if (viaProto || builder == null) {
            builder = FinishApplicationMasterResponseProto.newBuilder(proto);
        }
        viaProto = false;
    }
}
@Override
public boolean getIsUnregistered() {
    FinishApplicationMasterResponseProtoOrBuilder p =
        viaProto ? proto : builder;
    return p.getIsUnregistered();
}

@Override
public void setIsUnregistered(boolean isUnregistered) {
    maybeInitBuilder();
    builder.setIsUnregistered(isUnregistered);
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersRequest;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.StopContainersRequestProto;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.StopContainersRequestProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StopContainersRequestPBImpl extends StopContainersRequest {
StopContainersRequestProto proto = StopContainersRequestProto
    .getDefaultInstance();
StopContainersRequestProto.Builder builder = null;
boolean viaProto = false;

private List<ContainerId> containerIds = null;

public StopContainersRequestPBImpl() {
    builder = StopContainersRequestProto.newBuilder();
}

public StopContainersRequestPBImpl(StopContainersRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public StopContainersRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.containerIds != null) {
        addLocalContainerIdsToProto();
    }
}
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StopContainersRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private void addLocalContainerIdsToProto() {
    maybeInitBuilder();
    builder.clearContainerId();
    if (this.containerIds == null)
        return;
    List<ContainerIdProto> protoList = new ArrayList<ContainerIdProto>();
    for (ContainerId id : containerIds) {
        protoList.add(convertToProtoFormat(id));
    }
    builder.addAllContainerId(protoList);
}

private void initLocalContainerIds() {
    if (this.containerIds != null) {
        return;
    }
    StopContainersRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> containerIds = p.getContainerIdList();
    this.containerIds = new ArrayList<ContainerId>();
    for (ContainerIdProto id : containerIds) {
        this.containerIds.add(convertFromProtoFormat(id));
    }
}

@Override
public List<ContainerId> getContainerIds() {
    initLocalContainerIds();
    return this.containerIds;
}
@Override
public void setContainerIds(List<ContainerId> containerIds) {
    maybeInitBuilder();
    if (containerIds == null)
        builder.clearContainerId();
    this.containerIds = containerIds;
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshNodesResponsePBImpl extends RefreshNodesResponse {

    RefreshNodesResponseProto proto = RefreshNodesResponseProto.getDefaultInstance();
RefreshNodesResponseProto.Builder builder = null;
boolean viaProto = false;

public RefreshNodesResponsePBImpl() {
    builder = RefreshNodesResponseProto.newBuilder();
}

public RefreshNodesResponsePBImpl(RefreshNodesResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public RefreshNodesResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshUserToGroupsMappingsRequestPBImpl extends RefreshUserToGroupsMappingsRequest {

  RefreshUserToGroupsMappingsRequestProto proto =
    RefreshUserToGroupsMappingsRequestProto.getDefaultInstance();
  RefreshUserToGroupsMappingsRequestProto.Builder builder = null;
  boolean viaProto = false;
  
  public RefreshUserToGroupsMappingsRequestPBImpl() {
    builder = RefreshUserToGroupsMappingsRequestProto.newBuilder();
  }

  public RefreshUserToGroupsMappingsRequestPBImpl(RefreshUserToGroupsMappingsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public RefreshUserToGroupsMappingsRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }
}
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

public String toString() {
    return TextFormat.shortDebugString(getProto());
}

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.records.ContainerLaunchContext;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerLaunchContextPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StartContainerRequestPBImpl extends StartContainerRequest {
    StartContainerRequestProto proto = StartContainerRequestProto.getDefaultInstance();
    StartContainerRequestProto.Builder builder = null;
    boolean viaProto = false;

    private ContainerLaunchContext containerLaunchContext = null;

    private Token containerToken = null;

    public StartContainerRequestPBImpl() {
        builder = StartContainerRequestProto.newBuilder();
    }

    public StartContainerRequestPBImpl(StartContainerRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public StartContainerRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }
}
private void mergeLocalToBuilder() {
    if (this.containerLaunchContext != null) {
        builder.setContainerLaunchContext(convertToProtoFormat(this.containerLaunchContext));
    }
    if (this.containerToken != null) {
        builder.setContainerToken(convertToProtoFormat(this.containerToken));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = StartContainerRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ContainerLaunchContext getContainerLaunchContext() {
    StartContainerRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.containerLaunchContext != null) {
        return this.containerLaunchContext;
    }
    if (!p.hasContainerLaunchContext()) {
        return null;
    }
    this.containerLaunchContext = convertFromProtoFormat(p.getContainerLaunchContext());
    return this.containerLaunchContext;
}

@Override
public void setContainerLaunchContext(ContainerLaunchContext containerLaunchContext) {
    maybeInitBuilder();
    if (containerLaunchContext == null)
        builder.clearContainerLaunchContext();
    this.containerLaunchContext = containerLaunchContext;
}
@Override
public Token getContainerToken() {
    StartContainerRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.containerToken != null) {
        return this.containerToken;
    }
    if (!p.hasContainerToken()) {
        return null;
    }
    this.containerToken = convertFromProtoFormat(p.getContainerToken());
    return this.containerToken;
}

@Override
public void setContainerToken(Token containerToken) {
    maybeInitBuilder();
    if (containerToken == null) {
        builder.clearContainerToken();
    }
    this.containerToken = containerToken;
}

private ContainerLaunchContextPBImpl convertFromProtoFormat(ContainerLaunchContextProto p) {
    return new ContainerLaunchContextPBImpl(p);
}

private ContainerLaunchContextProto convertToProtoFormat(ContainerLaunchContext t) {
    return ((ContainerLaunchContextPBImpl)t).getProto();
}

private TokenPBImpl convertFromProtoFormat(TokenProto containerProto) {
    return new TokenPBImpl(containerProto);
}

private TokenProto convertToProtoFormat(Token container) {
    return ((TokenPBImpl)container).getProto();
}

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*/
package org.apache.hadoop.yarn.logaggregation;
import java.io.IOException;
import java.util.Timer;
import java.util.TimerTask;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.security.AccessControlException;
import org.apache.hadoop.service.AbstractService;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
/**
* A service that periodically deletes aggregated logs.
*/
@Private
public class AggregatedLogDeletionService extends AbstractService {
private static final Log LOG = LogFactory.getLog(AggregatedLogDeletionService.class);
private Timer timer = null;
static class LogDeletionTask extends TimerTask {
private Configuration conf;
private long retentionMillis;
private String suffix = null;
private Path remoteRootLogDir = null;
public LogDeletionTask(Configuration conf, long retentionSecs) {
this.conf = conf;
this.retentionMillis = retentionSecs * 1000;
this.suffix = LogAggregationUtils.getRemoteNodeLogDirSuffix(conf);
this.remoteRootLogDir =
new Path(conf.get(YarnConfiguration.NM_REMOTE_APP_LOG_DIR,

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YarnConfiguration.DEFAULT_NM_REMOTE_APP_LOG_DIR));

@Override
public void run() {
    long cutoffMillis = System.currentTimeMillis() - retentionMillis;
    LOG.info("aggregated log deletion started.");
    try {
        FileSystem fs = remoteRootLogDir.getFileSystem(conf);
        for(FileStatus userDir : fs.listStatus(remoteRootLogDir)) {
            if(userDir.isDirectory()) {
                Path userDirPath = new Path(userDir.getPath(), suffix);
                deleteOldLogDirsFrom(userDirPath, cutoffMillis, fs);
            }
        }
    } catch (IOException e) {
        logIOException("Error reading root log dir this deletion attempt is being aborted", e);
        LOG.info("aggregated log deletion finished.");
    }

    private static void deleteOldLogDirsFrom(Path dir, long cutoffMillis, FileSystem fs) {
        try {
            for(FileStatus appDir : fs.listStatus(dir)) {
                if(appDir.isDirectory() &&
                    appDir.getModificationTime() < cutoffMillis) {
                    if(shouldDeleteLogDir(appDir, cutoffMillis, fs)) {
                        try {
                            LOG.info("Deleting aggregated logs in "+appDir.getPath());
                            fs.delete(appDir.getPath(), true);
                        } catch (IOException e) {
                            logIOException("Could not delete "+appDir.getPath(), e);
                        }
                    }
                }
            }
        } catch (IOException e) {
            logIOException("Could not read the contents of " + dir, e);
        }
    }

    private static boolean shouldDeleteLogDir(FileStatus dir, long cutoffMillis, FileSystem fs) {
        boolean shouldDelete = true;
        try {
            return shouldDelete;
        }
    }
}
for (FileStatus node: fs.listStatus(dir.getPath())) {
    if (node.getModificationTime() >= cutoffMillis) {
        shouldDelete = false;
        break;
    }
}
}
} catch (IOException e) {
    logIOException("Error reading the contents of " + dir.getPath(), e);
    shouldDelete = false;
}
return shouldDelete;
}

private static void logIOException(String comment, IOException e) {
    if (e instanceof AccessControlException) {
        String message = e.getMessage();
        // TODO fix this after HADOOP-8661
        message = message.split("\n")[0];
        LOG.warn(comment + " " + message);
    } else {
        LOG.error(comment, e);
    }
}

public AggregatedLogDeletionService() {
    super(AggregatedLogDeletionService.class.getName());
}

@Override
protected void serviceStart() throws Exception {
    Configuration conf = getConfig();
    if (!conf.getBoolean(YarnConfiguration.LOG_AGGREGATION_ENABLED,
        YarnConfiguration.DEFAULT_LOG_AGGREGATION_ENABLED)) {
        // Log aggregation is not enabled so don't bother
        return;
    }
    long retentionSecs = conf.getLong(YarnConfiguration.LOG_AGGREGATION_RETAIN_SECONDS,
        YarnConfiguration.DEFAULT_LOG_AGGREGATION_RETAIN_SECONDS);
    if (retentionSecs < 0) {
        LOG.info("Log Aggregation deletion is disabled because retention is" +
            " too small (" + retentionSecs + ")");
        return;
    }
    long checkIntervalMsecs = 1000 * conf.getLong(
        YarnConfiguration.LOG_AGGREGATION_RETAIN_CHECK_INTERVAL_SECONDS,
        YarnConfiguration.DEFAULT_LOG_AGGREGATION_RETAIN_CHECK_INTERVAL_SECONDS);
    if (checkIntervalMsecs <= 0) {
// when unspecified compute check interval as 1/10th of retention
checkIntervalMsecs = (retentionSecs * 1000) / 10;
}
TimerTask task = new LogDeletionTask(conf, retentionSecs);
timer = new Timer();
timer.scheduleAtFixedRate(task, 0, checkIntervalMsecs);
super.serviceStart();
}

@Override
protected void serviceStop() throws Exception {
if(timer != null) {
    timer.cancel();
}
super.serviceStop();
}

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 */

package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.Resource;

@Private
@Unstable
public class ResourcePBImpl extends Resource {
    ResourceProto proto = ResourceProto.getDefaultInstance();
}
ResourceProto.Builder builder = null;
boolean viaProto = false;

public ResourcePBImpl() {
    builder = ResourceProto.newBuilder();
}

public ResourcePBImpl(ResourceProto proto) {
    this.proto = proto;
    viaProto = true;
}

public ResourceProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = ResourceProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public int getMemory() {
    ResourceProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getMemory());
}

@Override
public void setMemory(int memory) {
    maybeInitBuilder();
    builder.setMemory((memory));
}

@Override
public int getVirtualCores() {
    ResourceProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getVirtualCores());
}

@Override
public void setVirtualCores(int vCores) {
    maybeInitBuilder();
    builder.setVirtualCores((vCores));

@Override
public int compareTo(Resource other) {
    int diff = this.getMemory() - other.getMemory();
    if (diff == 0) {
        diff = this.getVirtualCores() - other.getVirtualCores();
    }
    return diff;
}

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 */

package org.apache.hadoop.yarn.api.impl.pb.service;

import java.io.IOException;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;

import java.io.IOException;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.StopContainersRequestProto;
import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ContainerManagementProtocolPBServiceImpl implements ContainerManagementProtocolPB {

private ContainerManagementProtocol real;

public ContainerManagementProtocolPBServiceImpl(ContainerManagementProtocol impl) {
    this.real = impl;
}

@Override
public StartContainersResponseProto startContainers(RpcController arg0,
    StartContainersRequestProto proto) throws ServiceException {
    StartContainersRequestPBImpl request = new StartContainersRequestPBImpl(proto);
    try {
        StartContainersResponse response = real.startContainers(request);
        return ((StartContainersResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public StopContainersResponseProto stopContainers(RpcController arg0,
    StopContainersRequestProto proto) throws ServiceException {
    StopContainersRequestPBImpl request = new StopContainersRequestPBImpl(proto);
    try {
        StopContainersResponse response = real.stopContainers(request);
        return ((StopContainersResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public GetContainerStatusesResponseProto getContainerStatuses(
        RpcController arg0, GetContainerStatusesRequestProto proto)
    throws ServiceException {
    GetContainerStatusesRequestPBImpl request = new GetContainerStatusesRequestPBImpl(proto);
    try {
        GetContainerStatusesResponse response = real.getContainerStatuses(request);
        return ((GetContainerStatusesResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

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 */

package org.apache.hadoop.yarn.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationClientProtocol;
import org.apache.hadoop.yarn.api.ApplicationClientProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationReportRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenRequest;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationRequest;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationReportRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetNewApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.SubmitApplicationRequestProto;

import com.google.protobuf.ServiceException;

@Private
public class ApplicationClientProtocolPBClientImpl implements ApplicationClientProtocol,
    Closeable {

    private ApplicationClientProtocolPB proxy;

    public ApplicationClientProtocolPBClientImpl(long clientVersion,
        InetSocketAddress addr, Configuration conf) throws IOException {
        RPC.setProtocolEngine(conf, ApplicationClientProtocolPB.class,
            ProtobufRpcEngine.class);
        proxy = RPC.getProxy(ApplicationClientProtocolPB.class, clientVersion, addr, conf);
    }

    @Override
    public void close() {
        if (this.proxy != null) {
            RPC.stopProxy(this.proxy);
        }
    }

    @Override
    public KillApplicationResponse forceKillApplication(
        KillApplicationRequest request) throws YarnException, IOException {
        KillApplicationRequestProto requestProto =
            ((KillApplicationRequestPBImpl) request).getProto();
        try {
            return new KillApplicationResponsePBImpl(proxy.forceKillApplication(null,
                requestProto));
        } catch (ServiceException e) {
            RPCUtil.unwrapAndThrowException(e);
            return null;
        }
    }

    @Override
public GetApplicationReportResponse getApplicationReport(GetApplicationReportRequest request) throws YarnException, IOException {
    GetApplicationReportRequestProto requestProto = ((GetApplicationReportRequestPBImpl) request).getProto();
    try {
        return new GetApplicationReportResponsePBImpl(proxy.getApplicationReport(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetClusterMetricsResponse getClusterMetrics(GetClusterMetricsRequest request) throws YarnException, IOException {
    GetClusterMetricsRequestProto requestProto = ((GetClusterMetricsRequestPBImpl) request).getProto();
    try {
        return new GetClusterMetricsResponsePBImpl(proxy.getClusterMetrics(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetNewApplicationResponse getNewApplication(GetNewApplicationRequest request) throws YarnException, IOException {
    GetNewApplicationRequestProto requestProto = ((GetNewApplicationRequestPBImpl) request).getProto();
    try {
        return new GetNewApplicationResponsePBImpl(proxy.getNewApplication(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public SubmitApplicationResponse submitApplication(SubmitApplicationRequest request) throws YarnException, IOException {
SubmitApplicationRequestProto requestProto =
   ((SubmitApplicationRequestPBImpl) request).getProto();
try {
   return new SubmitApplicationResponsePBImpl(proxy.submitApplication(null,
   requestProto));
} catch (ServiceException e) {
   RPCUtil.unwrapAndThrowException(e);
   return null;
}

@Override
public GetApplicationsResponse getApplications(
   GetApplicationsRequest request) throws YarnException,
IOException {
GetApplicationsRequestProto requestProto =
   ((GetApplicationsRequestPBImpl) request).getProto();
try {
   return new GetApplicationsResponsePBImpl(proxy.getApplications(  
   null, requestProto));
} catch (ServiceException e) {
   RPCUtil.unwrapAndThrowException(e);
   return null;
}

@Override
public GetClusterNodesResponse
getClusterNodes(GetClusterNodesRequest request)
   throws YarnException, IOException {
GetClusterNodesRequestProto requestProto =
   ((GetClusterNodesRequestPBImpl) request).getProto();
try {
   return new GetClusterNodesResponsePBImpl(proxy.getClusterNodes(null,
   requestProto));
} catch (ServiceException e) {
   RPCUtil.unwrapAndThrowException(e);
   return null;
}

@Override
public GetQueueInfoResponse getQueueInfo(GetQueueInfoRequest request)
   throws YarnException, IOException {
GetQueueInfoRequestProto requestProto =
   ((GetQueueInfoRequestPBImpl) request).getProto();
try {
   return new GetQueueInfoResponsePBImpl(proxy.getQueueInfo(null,
requestProto));
} catch (ServiceException e) {
    RPCUtil.unwrapAndThrowException(e);
    return null;
}

@Override
public GetQueueUserAclsInfoResponse getQueueUserAcls(
    GetQueueUserAclsInfoRequest request) throws YarnException,
    IOException {
    GetQueueUserAclsInfoRequestProto requestProto =
        ((GetQueueUserAclsInfoRequestPBImpl) request).getProto();
    try {
        return new GetQueueUserAclsInfoResponsePBImpl(proxy.getQueueUserAcls(
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public GetDelegationTokenResponse getDelegationToken(
    GetDelegationTokenRequest request) throws YarnException,
    IOException {
    GetDelegationTokenRequestProto requestProto =
        ((GetDelegationTokenRequestPBImpl) request).getProto();
    try {
        return new GetDelegationTokenResponsePBImpl(proxy.getDelegationToken(
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RenewDelegationTokenResponse renewDelegationToken(
    RenewDelegationTokenRequest request) throws YarnException,
    IOException {
    RenewDelegationTokenRequestProto requestProto =
        ((RenewDelegationTokenRequestPBImpl) request).getProto();
    try {
        return new RenewDelegationTokenResponsePBImpl(proxy.renewDelegationToken(
            null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
@Override
public CancelDelegationTokenResponse cancelDelegationToken(
    CancelDelegationTokenRequest request) throws YarnException,
    IOException {
    CancelDelegationTokenRequestProto requestProto =
        ((CancelDelegationTokenRequestPBImpl) request).getProto();
    try {
        return new CancelDelegationTokenResponsePBImpl(
            proxy.cancelDelegationToken(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

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 */

package org.apache.hadoop.yarn.factories.impl.pb;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;

import org.apache.hadoop.yarn.factories.impl.pb;
import org.apache.hadoop.yarn.factories.RecordFactory;

@Private
public class RecordFactoryPBImpl implements RecordFactory {

private static final String PB_IMPL_PACKAGE_SUFFIX = "impl.pb";
private static final String PB_IMPL_CLASS_SUFFIX = "PBImpl";

private static final RecordFactoryPBImpl self = new RecordFactoryPBImpl();
private Configuration localConf = new Configuration();
private ConcurrentHashMap<Class<?>, Constructor<?>> cache = new ConcurrentHashMap<Class<?>, Constructor<?>>();

private RecordFactoryPBImpl() {
}

public static RecordFactory get() {
    return self;
}

@SuppressWarnings("unchecked")
@Override
public <T> T newRecordInstance(Class<T> clazz) {

    Constructor<?> constructor = cache.get(clazz);
    if (constructor == null) {
        Class<?> pbClazz = null;
        try {
            pbClazz = localConf.getClassByName(getPBImplClassName(clazz));
        } catch (ClassNotFoundException e) {
            throw new YarnRuntimeException("Failed to load class: ", e);
        }
        try {
            constructor = pbClazz.getConstructor();
            constructor.setAccessible(true);
            cache.putIfAbsent(clazz, constructor);
        } catch (NoSuchMethodException e) {
            throw new YarnRuntimeException("Could not find 0 argument constructor", e);
        }
        try {
            Object retObject = constructor.newInstance();
            return (T)retObject;
        } catch (InvocationTargetException e) {
            throw new YarnRuntimeException(e);
        } catch (IllegalAccessException e) {
            throw new YarnRuntimeException(e);
        }
    }
    Object retObject = constructor.newInstance();
    return (T)retObject;
} catch (InvocationTargetException e) {
    throw new YarnRuntimeException(e);
} catch (IllegalAccessException e) {
    throw new YarnRuntimeException(e);
}
private String getPBImplClassName(Class<?> clazz) {
    String srcPackagePart = getPackageName(clazz);
    String srcClassName = getClassName(clazz);
    String destPackagePart = srcPackagePart + PB_IMPL_PACKAGE_SUFFIX;
    String destClassPart = srcClassName + PB_IMPL_CLASS_SUFFIX;
    return destPackagePart + destClassPart;
}

private String getClassName(Class<?> clazz) {
    String fqName = clazz.getName();
    return (fqName.substring(fqName.lastIndexOf('.') + 1, fqName.length()));
}

private String getPackageName(Class<?> clazz) {
    return clazz.getPackage().getName();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationReportRequest;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetApplicationReportRequestPBImpl extends GetApplicationReportRequest {  
  GetApplicationReportRequestProto proto = GetApplicationReportRequestProto.getDefaultInstance();
  GetApplicationReportRequestProto.Builder builder = null;
  boolean viaProto = false;

  private ApplicationId applicationId = null;

  public GetApplicationReportRequestPBImpl() {
    builder = GetApplicationReportRequestProto.newBuilder();
  }

  public GetApplicationReportRequestPBImpl(GetApplicationReportRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public GetApplicationReportRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public boolean equals(Object other) {
    if (other == null) return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
      return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
  }

  @Override
  public boolean equals(Object other) {
    if (other == null) return false;
    return getProto().equals(this.getClass().cast(other).getProto());
  }

  @Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (applicationId != null) {
        builder.setApplicationId(convertToProtoFormat(this.applicationId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationReportRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationId getApplicationId() {
    GetApplicationReportRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.applicationId != null) {
        return this.applicationId;
    }
    if (!p.hasApplicationId()) {
        return null;
    }
    this.applicationId = convertFromProtoFormat(p.getApplicationId());
    return this.applicationId;
}

@Override
public void setApplicationId(ApplicationId applicationId) {
    maybeInitBuilder();
    if (applicationId == null)
        builder.clearApplicationId();
    this.applicationId = applicationId;
}

private ApplicationIdPBImpl convertFromProtoFormat(ApplicationIdProto p) {
private ApplicationIdProto convertToProtoFormat(ApplicationId t) {
    return ((ApplicationIdPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshQueuesResponsePBImpl extends RefreshQueuesResponse {

    RefreshQueuesResponseProto proto = RefreshQueuesResponseProto.getDefaultInstance();
    RefreshQueuesResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshQueuesResponsePBImpl() {
        builder = RefreshQueuesResponseProto.newBuilder();
    }

public RefreshQueuesResponsePBImpl(RefreshQueuesResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public RefreshQueuesResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */
package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsRequest;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsRequestPBImpl extends RefreshServiceAclsRequest {

    RefreshServiceAclsRequestProto proto =
    RefreshServiceAclsRequestProto.getDefaultInstance();
    RefreshServiceAclsRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshServiceAclsRequestPBImpl() {
        builder = RefreshServiceAclsRequestProto.newBuilder();
    }

    public RefreshServiceAclsRequestPBImpl(RefreshServiceAclsRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshServiceAclsRequestProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
    }
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.server.api.impl.pb.service;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.exceptions.YarnException;


import org.apache.hadoop.yarn.server.api.ResourceManagerAdministrationProtocolPB;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshUserToGroupsMappingsResponse;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshSuperUserGroupsConfigurationRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshAdminAclsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshNodesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshQueuesRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshQueuesResponsePBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsRequestPBImpl;
import org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb.RefreshUserToGroupsMappingsResponsePBImpl;
import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ResourceManagerAdministrationProtocolPBServiceImpl implements ResourceManagerAdministrationProtocolPB {
    private ResourceManagerAdministrationProtocol real;

    public ResourceManagerAdministrationProtocolPBServiceImpl(ResourceManagerAdministrationProtocol impl) {
        this.real = impl;
    }

    @Override
    public RefreshQueuesResponseProto refreshQueues(RpcController controller, RefreshQueuesRequestProto proto) throws ServiceException {
        // Implementation...
    }
}
RefreshQueuesRequestPBImpl request = new RefreshQueuesRequestPBImpl(proto);
try {
    RefreshQueuesResponse response = real.refreshQueues(request);
    return ((RefreshQueuesResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public RefreshAdminAclsResponseProto refreshAdminAcls(
    RpcController controller, RefreshAdminAclsRequestProto proto)
throws ServiceException {
    RefreshAdminAclsRequestPBImpl request =
        new RefreshAdminAclsRequestPBImpl(proto);
    try {
        RefreshAdminAclsResponse response = real.refreshAdminAcls(request);
        return ((RefreshAdminAclsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RefreshNodesResponseProto refreshNodes(RpcController controller,
    RefreshNodesRequestProto proto) throws ServiceException {
    RefreshNodesRequestPBImpl request = new RefreshNodesRequestPBImpl(proto);
    try {
        RefreshNodesResponse response = real.refreshNodes(request);
        return ((RefreshNodesResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RefreshSuperUserGroupsConfigurationResponseProto
refreshSuperUserGroupsConfiguration(
    RpcController controller,
    RefreshSuperUserGroupsConfigurationRequestProto proto)
throws ServiceException {
    RefreshSuperUserGroupsConfigurationRequestPBImpl request =
        new RefreshSuperUserGroupsConfigurationRequestPBImpl(proto);
    try {
        RefreshSuperUserGroupsConfigurationResponse response = real.refreshSuperUserGroupsConfiguration(request);
        return ((RefreshSuperUserGroupsConfigurationResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}
new RefreshSuperUserGroupsConfigurationRequestPBImpl(proto);
try {
    RefreshSuperUserGroupsConfigurationResponse response = 
        real.refreshSuperUserGroupsConfiguration(request);
    return ((RefreshSuperUserGroupsConfigurationResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public RefreshUserToGroupsMappingsResponseProto refreshUserToGroupsMappings( 
    RpcController controller, RefreshUserToGroupsMappingsRequestProto proto) 
throws ServiceException {
    RefreshUserToGroupsMappingsRequestPBImpl request = 
        new RefreshUserToGroupsMappingsRequestPBImpl(proto);
    try {
        RefreshUserToGroupsMappingsResponse response = 
            real.refreshUserToGroupsMappings(request);
        return ((RefreshUserToGroupsMappingsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RefreshServiceAclsResponseProto refreshServiceAcls( 
    RpcController controller, RefreshServiceAclsRequestProto proto) 
throws ServiceException {
    RefreshServiceAclsRequestPBImpl request = 
        new RefreshServiceAclsRequestPBImpl(proto);
    try {
        RefreshServiceAclsResponse response = 
            real.refreshServiceAcls(request);
        return ((RefreshServiceAclsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public GetGroupsForUserResponseProto getGroupsForUser(
RpcController controller, GetGroupsForUserRequestProto request) throws ServiceException {
    String user = request.getUser();
    try {
        String[] groups = real.getGroupsForUser(user);
        GetGroupsForUserResponseProto.Builder responseBuilder =
            GetGroupsForUserResponseProto.newBuilder();
        for (String group : groups) {
            responseBuilder.addGroups(group);
        }
        return responseBuilder.build();
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

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 */

package org.apache.hadoop.yarn.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateRequest;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterRequest;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterRequest;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.RegisterApplicationMasterRequestProto;
import com.google.protobuf.ServiceException;

@Private
public class ApplicationMasterProtocolPBClientImpl implements ApplicationMasterProtocol, Closeable {

    private ApplicationMasterProtocolPB proxy;

    public ApplicationMasterProtocolPBClientImpl(long clientVersion, InetSocketAddress addr,
            Configuration conf) throws IOException {
        RPC.setProtocolEngine(conf, ApplicationMasterProtocolPB.class, ProtobufRpcEngine.class);
        proxy = (ApplicationMasterProtocolPB) RPC.getProxy(ApplicationMasterProtocolPB.class, clientVersion,
                addr, conf);
    }

    @Override
    public void close() {
        if (this.proxy != null) {
            RPC.stopProxy(this.proxy);
        }
    }

    @Override
    public AllocateResponse allocate(AllocateRequest request)
            throws YarnException, IOException {
        AllocateRequestProto requestProto = ((AllocateRequestPBImpl) request).getProto();
        try {
            return new AllocateResponsePBImpl(proxy.allocate(null, requestProto));
        } catch (ServiceException e) {
            RPCUtil.unwrapAndThrowException(e);
        }
    }
}
@Override
public FinishApplicationMasterResponse finishApplicationMaster(FinishApplicationMasterRequest request) throws YarnException, IOException {
    FinishApplicationMasterRequestProto requestProto =
        ((FinishApplicationMasterRequestPBImpl) request).getProto();
    try {
        return new FinishApplicationMasterResponsePBImpl(proxy.finishApplicationMaster(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

@Override
public RegisterApplicationMasterResponse registerApplicationMaster(RegisterApplicationMasterRequest request) throws YarnException, IOException {
    RegisterApplicationMasterRequestProto requestProto =
        ((RegisterApplicationMasterRequestPBImpl) request).getProto();
    try {
        return new RegisterApplicationMasterResponsePBImpl(proxy.registerApplicationMaster(null, requestProto));
    } catch (ServiceException e) {
        RPCUtil.unwrapAndThrowException(e);
        return null;
    }
}

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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ApplicationReport;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetApplicationReportResponsePBImpl extends GetApplicationReportResponse {
  GetApplicationReportResponseProto proto = GetApplicationReportResponseProto.getDefaultInstance();
  GetApplicationReportResponseProto.Builder builder = null;
  boolean viaProto = false;

  private ApplicationReport applicationReport = null;

  public GetApplicationReportResponsePBImpl() {
    builder = GetApplicationReportResponseProto.newBuilder();
  }

  public GetApplicationReportResponsePBImpl(GetApplicationReportResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public GetApplicationReportResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }
}
@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationReport != null) {
        builder.setApplicationReport(convertToProtoFormat(this.applicationReport));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationReportResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationReport getApplicationReport() {
    if (this.applicationReport != null) {
        return this.applicationReport;
    }
    if (!p.hasApplicationReport()) {
        return null;
    }
    this.applicationReport = convertFromProtoFormat(p.getApplicationReport());
}
return this.applicationReport;
}

@Override
public void setApplicationReport(ApplicationReport applicationMaster) {
  maybeInitBuilder();
  if (applicationMaster == null)
    builder.clearApplicationReport();
  this.applicationReport = applicationMaster;
}

private ApplicationReportPBImpl convertFromProtoFormat(ApplicationReportProto p) {
  return new ApplicationReportPBImpl(p);
}

private ApplicationReportProto convertToProtoFormat(ApplicationReport t) {
  return ((ApplicationReportPBImpl)t).getProto();
}

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 */
package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.PreemptionResourceRequest;
import org.apache.hadoop.yarn.api.records.ResourceRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class PreemptionResourceRequestPBImpl extends PreemptionResourceRequest {

PreemptionResourceRequestProto proto =
    PreemptionResourceRequestProto.getDefaultInstance();
PreemptionResourceRequestProto.Builder builder = null;

boolean viaProto = false;
private ResourceRequest rr;

public PreemptionResourceRequestPBImpl() {
    builder = PreemptionResourceRequestProto.newBuilder();
}

public PreemptionResourceRequestPBImpl(PreemptionResourceRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public synchronized PreemptionResourceRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (rr != null) {
        builder.setResource(convertToProtoFormat(rr));
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = PreemptionResourceRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized ResourceRequest getResourceRequest() {
    PreemptionResourceRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (rr != null) {
        return rr;
    }
    if (!p.hasResource()) {
        return null;
    }
    rr = convertFromProtoFormat(p.getResource());
    return rr;
}

@Override
public synchronized void setResourceRequest(final ResourceRequest rr) {
    maybeInitBuilder();
    if (null == rr) {
        builder.clearResource();
    }
    this.rr = rr;
}

private ResourceRequestPBImpl convertFromProtoFormat(ResourceRequestProto p) {
    return new ResourceRequestPBImpl(p);
}
private ResourceRequestProto convertToProtoFormat(ResourceRequest t) {
    return ((ResourceRequestPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.webapp.log;

import static org.apache.hadoop.yarn.webapp.YarnWebParams.APP_OWNER;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.CONTAINER_ID;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.CONTAINER_LOG_TYPE;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.ENTITY_STRING;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.NM_NODENAME;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.logaggregation.AggregatedLogFormat;
import org.apache.hadoop.yarn.logaggregation.LogAggregationUtils;
import org.apache.hadoop.yarn.server.security.ApplicationACLsManager;

import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.logaggregation.AggregatedLogFormat;
import org.apache.hadoop.yarn.logaggregation.LogAggregationUtils;
import org.apache.hadoop.yarn.server.security.ApplicationACLsManager;
import org.apache.hadoop.yarn.util.ConverterUtils;
import org.apache.hadoop.yarn.webapp.hamlet.Hamlet;
import org.apache.hadoop.yarn.webapp.hamlet.Hamlet.PRE;
import org.apache.hadoop.yarn.webapp.view.HtmlBlock;

import com.google.inject.Inject;

@InterfaceAudience.LimitedPrivate(\"YARN\", \"MapReduce\")
public class AggregatedLogsBlock extends HtmlBlock {

private final Configuration conf;

@Inject
AggregatedLogsBlock(Configuration conf) {
  this.conf = conf;
}

@Override
protected void render(Block html) {
  ContainerId containerId = verifyAndGetContainerId(html);
  NodeId nodeId = verifyAndGetNodeId(html);
  String appOwner = verifyAndGetAppOwner(html);
  LogLimits logLimits = verifyAndGetLogLimits(html);
  if (containerId == null || nodeId == null || appOwner == null
      || appOwner.isEmpty() || logLimits == null) {
    return;
  }

  ApplicationId applicationId =
      containerId.getApplicationAttemptId().getApplicationId();
  String logEntity = $(ENTITY_STRING);
  if (logEntity == null || logEntity.isEmpty()) {
    logEntity = containerId.toString();
  }

  if (!conf.getBoolean(YarnConfiguration.LOG_AGGREGATION_ENABLED,
                      YarnConfiguration.DEFAULT_LOG_AGGREGATION_ENABLED)) {
    html.h1()
      ._(\"Aggregation is not enabled. Try the nodemanager at \" + nodeId)
      ._();
    return;
  }

  Path remoteRootLogDir =
      new Path(conf.get(YarnConfiguration.NM_REMOTE_APP_LOG_DIR,
                        YarnConfiguration.DEFAULT_NM_REMOTE_APP_LOG_DIR));
  AggregatedLogFormat.LogReader reader = null;
  try {

reader =
    new AggregatedLogFormat.LogReader(conf,
    LogAggregationUtils.getRemoteNodeLogFileForApp(
        remoteRootLogDir, applicationId, appOwner, nodeId,
        LogAggregationUtils.getRemoteNodeLogDirSuffix(conf)));
} catch (FileNotFoundException e) {
    // ACLs not available till the log file is opened.
    html.h1()
        ._('"Logs not available for 
            + logEntity
            + ". Aggregation may not be complete, "
            + "Check back later or try the nodemanager at 
            + nodeId"._;
    return;
} catch (IOException e) {
    html.h1()._('"Error getting logs for " + logEntity)._;
    LOG.error("Error getting logs for " + logEntity, e);
    return;
}

String owner = null;
Map<ApplicationAccessType, String> appAcls = null;
try {
    owner = reader.getApplicationOwner();
    appAcls = reader.getApplicationAcls();
} catch (IOException e) {
    html.h1()._('"Error getting logs for " + logEntity)._;
    LOG.error("Error getting logs for " + logEntity, e);
    return;
}

ApplicationACLsManager aclsManager = new ApplicationACLsManager(conf);
aclsManager.addApplication(applicationId, appAcls);

String remoteUser = request().getRemoteUser();
UserGroupInformation callerUGI = null;
if (remoteUser != null) {
    callerUGI = UserGroupInformation.createRemoteUser(remoteUser);
}
if (callerUGI != null
    && !aclsManager.checkAccess(callerUGI, ApplicationAccessType.VIEW_APP,
        owner, applicationId)) {
    html.h1()
        ._('"User [" + remoteUser
            + "] is not authorized to view the logs for " + logEntity"._;
    return;
}

String desiredLogType = $(CONTAINER_LOG_TYPE);
try {
    AggregatedLogFormat.ContainerLogsReader logReader =
    reader.getContainerLogsReader(containerId);
    if (logReader == null) {
        html.h1()._(
            "Logs not available for " + logEntity
            + ". Could be caused by the retention policy")_.();
        return;
    }

    boolean foundLog = readContainerLogs(html, logReader, logLimits,
        desiredLogType);

    if (!foundLog) {
        if (desiredLogType.isEmpty()) {
            html.h1("No logs available for container " + containerId.toString());
        } else {
            html.h1("Unable to locate " + desiredLogType
                    + " log for container " + containerId.toString());
        }
        return;
    }
} catch (IOException e) {
    html.h1()._('Error getting logs for " + logEntity)._();
    LOG.error("Error getting logs for " + logEntity, e);
    return;
}

private boolean readContainerLogs(Block html,
    AggregatedLogFormat.ContainerLogsReader logReader, LogLimits logLimits,
    String desiredLogType) throws IOException {
    int bufferSize = 65536;
    char[] cbuf = new char[bufferSize];

    boolean foundLog = false;
    String logType = logReader.nextLog();
    while (logType != null) {
        if (desiredLogType == null || desiredLogType.isEmpty()
            || desiredLogType.equals(logType)) {
            long logLength = logReader.getCurrentLogLength();

            if (foundLog) {
                html.pre()._("\n\n")_.();
            }

            html.p()._("Log Type: " + logType)._();
            html.p()._("Log Length: " + Long.toString(logLength))._();
    }

    html.p()._("Log Type: " + logType)._();
    html.p()._("Log Length: " + Long.toString(logLength))._();
}
long start = logLimits.start < 0
    ? logLength + logLimits.start : logLimits.start;
start = start < 0 ? 0 : start;
start = start > logLength ? logLength : start;
long end = logLimits.end < 0
    ? logLength + logLimits.end : logLimits.end;
end = end < 0 ? 0 : end;
end = end > logLength ? logLength : end;
end = end < start ? start : end;

long toRead = end - start;
if (toRead < logLength) {
    html.p()._('Showing " + toRead + " bytes of " + logLength
            + " total. Click ")
        .a(url("logs", $(NM_NODENAME), $(CONTAINER_ID),
            $(ENTITY_STRING), $(APP_OWNER),
            logType, "?start=0"), "here").
            _(" for the full log.")._();
}

long totalSkipped = 0;
while (totalSkipped < start) {
    long ret = logReader.skip(start - totalSkipped);
    if (ret < 0) {
        throw new IOException( "Premature EOF from container log");
    }
    totalSkipped += ret;
}

int len = 0;
int currentToRead = toRead > bufferSize ? bufferSize : (int) toRead;
PRE<Hamlet> pre = html.pre();

while (toRead > 0
        && (len = logReader.read(cbuf, 0, currentToRead)) > 0) {
    pre._(new String(cbuf, 0, len));
    toRead = toRead - len;
    currentToRead = toRead > bufferSize ? bufferSize : (int) toRead;
}
pre._();
foundLog = true;
}

logType = logReader.nextLog();
}
private ContainerId verifyAndGetContainerId(Block html) {
    String containerIdStr = $(CONTAINER_ID);
    if (containerIdStr == null || containerIdStr.isEmpty()) {
        html.h1()._("Cannot get container logs without a ContainerId")._();
        return null;
    }
    ContainerId containerId = null;
    try {
        containerId = ConverterUtils.toContainerId(containerIdStr);
    } catch (IllegalArgumentException e) {
        html.h1().(_("Cannot get container logs for invalid containerId: ")
            + containerIdStr)._();
        return null;
    }
    return containerId;
}

private NodeId verifyAndGetNodeId(Block html) {
    String nodeIdStr = $(NM_NODENAME);
    if (nodeIdStr == null || nodeIdStr.isEmpty()) {
        html.h1().(_("Cannot get container logs without a NodeId"))._();
        return null;
    }
    NodeId nodeId = null;
    try {
        nodeId = ConverterUtils.toNodeId(nodeIdStr);
    } catch (IllegalArgumentException e) {
        html.h1().(_("Cannot get container logs. Invalid nodeId: ") + nodeIdStr)
            ._();
        return null;
    }
    return nodeId;
}

private String verifyAndGetAppOwner(Block html) {
    String appOwner = $(APP_OWNER);
    if (appOwner == null || appOwner.isEmpty()) {
        html.h1().(_("Cannot get container logs without an app owner"))._();
    }
    return appOwner;
}

private static class LogLimits {
    long start;
long end;
}
private LogLimits verifyAndGetLogLimits(Block html) {
long start = -4096;
long end = Long.MAX_VALUE;
boolean isValid = true;
String startStr = $("start");
if (startStr != null && !startStr.isEmpty()) {
try {
start = Long.parseLong(startStr);
} catch (NumberFormatException e) {
isValid = false;
html.h1()._("Invalid log start value: " + startStr)._();
}
}
String endStr = $("end");
if (endStr != null && !endStr.isEmpty()) {
try {
end = Long.parseLong(endStr);
} catch (NumberFormatException e) {
isValid = false;
html.h1()._("Invalid log end value: " + endStr)._();
}
}
if (!isValid) {
return null;
}
LogLimits limits = new LogLimits();
limits.start = start;
limits.end = end;
return limits;
}
}
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*/

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetDelegationTokenRequestPBImpl extends GetDelegationTokenRequest {

    String renewer;

    GetDelegationTokenRequestProto proto =
        GetDelegationTokenRequestProto.getDefaultInstance();
    GetDelegationTokenRequestProto.Builder builder = null;
    boolean viaProto = false;

    public GetDelegationTokenRequestPBImpl() {
        builder = GetDelegationTokenRequestProto.newBuilder();
    }

    public GetDelegationTokenRequestPBImpl(GetDelegationTokenRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    @Override
    public String getRenewer() {
        GetDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
        if (this.renewer != null) {
            return this.renewer;
        }
        this.renewer = p.getRenewer();
        return this.renewer;
    }
}
@Override
public void setRenewer(String renewer) {
    maybeInitBuilder();
    if (renewer == null)
        builder.clearRenewer();
    this.renewer = renewer;
}

public GetDelegationTokenRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (renewer != null) {
        builder.setRenewer(this.renewer);
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}
private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationRequest;
import org.apache.hadoop.yarn.api.records.ApplicationSubmissionContext;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationSubmissionContextPBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class SubmitApplicationRequestPBImpl extends SubmitApplicationRequest {
    SubmitApplicationRequestProto proto = SubmitApplicationRequestProto.getDefaultInstance();
    SubmitApplicationRequestProto.Builder builder = null;
    boolean viaProto = false;

    private ApplicationSubmissionContext applicationSubmissionContext = null;

    import com.google.protobuf.TextFormat;

    @Private
    @Unstable
    public class SubmitApplicationRequestPBImpl extends SubmitApplicationRequest {
        SubmitApplicationRequestProto proto = SubmitApplicationRequestProto.getDefaultInstance();
        SubmitApplicationRequestProto.Builder builder = null;
        boolean viaProto = false;

        private ApplicationSubmissionContext applicationSubmissionContext = null;

public SubmitApplicationRequestPBImpl() {
    builder = SubmitApplicationRequestProto.newBuilder();
}

public SubmitApplicationRequestPBImpl(SubmitApplicationRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public SubmitApplicationRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationSubmissionContext != null) {
        builder.setApplicationSubmissionContext(convertToProtoFormat(this.applicationSubmissionContext));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
}

private void maybeInitBuilder()

```java
proto = builder.build();
viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = SubmitApplicationRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationSubmissionContext getApplicationSubmissionContext() {
    SubmitApplicationRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.applicationSubmissionContext != null) {
        return this.applicationSubmissionContext;
    }
    if (!p.hasApplicationSubmissionContext()) {
        return null;
    }
    this.applicationSubmissionContext = convertFromProtoFormat(p.getApplicationSubmissionContext());
    return this.applicationSubmissionContext;
}

@Override
public void setApplicationSubmissionContext(ApplicationSubmissionContext applicationSubmissionContext) {
    maybeInitBuilder();
    if (applicationSubmissionContext == null)
        builder.clearApplicationSubmissionContext();
    this.applicationSubmissionContext = applicationSubmissionContext;
}

private ApplicationSubmissionContextPBImpl convertFromProtoFormat(ApplicationSubmissionContextProto p) {
    return new ApplicationSubmissionContextPBImpl(p);
}

private ApplicationSubmissionContextProto convertToProtoFormat(ApplicationSubmissionContext t) {
    return ((ApplicationSubmissionContextPBImpl)t).getProto();
}
```

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*/

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshServiceAclsResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshServiceAclsResponsePBImpl extends RefreshServiceAclsResponse {

    RefreshServiceAclsResponseProto proto = RefreshServiceAclsResponseProto.getDefaultInstance();
    RefreshServiceAclsResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshServiceAclsResponsePBImpl() {
        builder = RefreshServiceAclsResponseProto.newBuilder();
    }

    public RefreshServiceAclsResponsePBImpl(RefreshServiceAclsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshServiceAclsResponsePBImpl(RefreshServiceAclsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshServiceAclsResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
        return proto;
    }
}
@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshSuperUserGroupsConfigurationRequest;

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 */

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshSuperUserGroupsConfigurationRequestPBImpl extends RefreshSuperUserGroupsConfigurationRequest {

RefreshSuperUserGroupsConfigurationRequestProto proto =
RefreshSuperUserGroupsConfigurationRequestProto.getDefaultInstance();
RefreshSuperUserGroupsConfigurationRequestProto.Builder builder = null;
boolean viaProto = false;

public RefreshSuperUserGroupsConfigurationRequestPBImpl() {
    builder = RefreshSuperUserGroupsConfigurationRequestProto.newBuilder();
}

public RefreshSuperUserGroupsConfigurationRequestPBImpl(RefreshSuperUserGroupsConfigurationRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public RefreshSuperUserGroupsConfigurationRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshAdminAclsResponsePBImpl extends RefreshAdminAclsResponse {

    RefreshAdminAclsResponseProto proto = RefreshAdminAclsResponseProto.getDefaultInstance();
    RefreshAdminAclsResponseProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshAdminAclsResponsePBImpl() {
        builder = RefreshAdminAclsResponseProto.newBuilder();
    }

    public RefreshAdminAclsResponsePBImpl(RefreshAdminAclsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshAdminAclsResponseProto getProto() {
        proto = viaProto ? proto : builder.build();
    }
viaProto = true;
return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoRequest;

import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.
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import org.apache.hadoop.yarn.api.protocolrecords.impl pb.
import org.apache.hadoop.yarn.api.protocolrecords.impl pb.
import org.apache.hadoop.yarn.api protocolrecords.impl.pb;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueInfoRequestPBImpl extends GetQueueInfoRequest {

GetQueueInfoRequestProto proto =
    GetQueueInfoRequestProto.getDefaultInstance();
GetQueueInfoRequestProto.Builder builder = null;
boolean viaProto = false;

public GetQueueInfoRequestPBImpl() {
    builder = GetQueueInfoRequestProto.newBuilder();
}

public GetQueueInfoRequestPBImpl(GetQueueInfoRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public boolean getIncludeApplications() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasIncludeApplications()) ? p.getIncludeApplications() : false;
}

@Override
public boolean getIncludeChildQueues() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasIncludeChildQueues()) ? p.getIncludeChildQueues() : false;
}

@Override
public String getQueueName() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasQueueName()) ? p.getQueueName() : null;
}

@Override
public boolean getRecursive() {
    GetQueueInfoRequestProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasRecursive()) ? p.getRecursive() : false;
}

@Override
public void setIncludeApplications(boolean includeApplications) {

}
maybeInitBuilder();
builder.setIncludeApplications(includeApplications);
}

@Override
public void setIncludeChildQueues(boolean includeChildQueues) {
maybeInitBuilder();
builder.setIncludeChildQueues(includeChildQueues);
}

@Override
public void setQueueName(String queueName) {
maybeInitBuilder();
if (queueName == null) {
    builder.clearQueueName();
    return;
}
builder.setQueueName(queueName);
}

@Override
public void setRecursive(boolean recursive) {
maybeInitBuilder();
builder.setRecursive(recursive);
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetQueueInfoRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

public GetQueueInfoRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
return false;
}
if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
} else {
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.webapp.hamlet;

import com.google.common.base.Joiner;
import static com.google.common.base.Preconditions.*;
import com.google.common.base.Splitter;
import com.google.common.collect.Iterables;
import java.io.PrintWriter;
import java.util.EnumSet;
import static java.util.EnumSet.*;
import java.util.Iterator;
import static org.apache.commons.lang.StringEscapeUtils.*;
import static org.apache.hadoop.yarn.webapp.hamlet.HamletImpl.EOpt.*;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.yarn.webapp.SubView;
import org.apache.hadoop.yarn.webapp.exceptions.WebAppException;

import static org.apache.commons.lang.StringEscapeUtils.*;
import static org.apache.hadoop.yarn.webapp.hamlet.HamletImpl.EOpt.*;
 /**
 * A simple unbuffered generic hamlet implementation.
 * 
 * Zero copy but allocation on every element, which could be
 * optimized to use a thread-local element pool.
 * 
 * Prints HTML as it builds. So the order is important.
 * */

 @InterfaceAudience.Private
 public class HamletImpl extends HamletSpec {
 private static final String INDENT_CHARS = "  ";
 private static final Splitter SS = Splitter.on('.').
 omitEmptyStrings().trimResults();
 private static final Joiner SJ = Joiner.on(" ");
 private static final Joiner CJ = Joiner.on(",");
 static final int S_ID = 0;
 static final int S_CLASS = 1;

 int nestLevel;
 int indents; // number of indent() called, mostly for testing.
 private final PrintWriter out;
 private final StringBuilder sb = new StringBuilder(); // not shared
 private boolean wasInline = false;

 /**
 * Element options. (whether it needs end tag, is inline etc.)
 */

 public enum EOpt {
 /** needs end(close) tag */
 ENDTAG,
 /** The content is inline */
 INLINE,
 /** The content is preformatted */
 PRE
 }

 /**
 * The base class for elements
 * @param <T> type of the parent (containing) element for the element
 */

 public class EImp<T extends _> implements _Child {
 private final String name;
 private final T parent; // short cut for parent element
 private final EnumSet<EOpt> opts; // element options

 private boolean started = false;
 private boolean attrsClosed = false;

EImp(String name, T parent, EnumSet<EOpt> opts) {
    this.name = name;
    this.parent = parent;
    this.opts = opts;
}

@Override
public T _() {
    closeAttrs();
    --nestLevel;
    printEndTag(name, opts);
    return parent;
}

protected void _p(boolean quote, Object... args) {
    closeAttrs();
    for (Object s : args) {
        if (!opts.contains(PRE)) {
            indent(opts);
        }
        out.print(quote ? escapeHtml(String.valueOf(s)) : String.valueOf(s));
        if (!opts.contains(INLINE) && !opts.contains(PRE)) {
            out.println();
        }
    }
}

protected void _v(Class<? extends SubView> cls) {
    closeAttrs();
    subView(cls);
}

protected void closeAttrs() {
    if (!attrsClosed) {
        startIfNeeded();
        ++nestLevel;
        out.print('>');
        if (!opts.contains(INLINE) && !opts.contains(PRE)) {
            out.println();
        }
        attrsClosed = true;
    }
}

protected void addAttr(String name, String value) {
    checkState(!attrsClosed, "attribute added after content");
}
startIfNeeded();
printAttr(name, value);
}

protected void addAttr(String name, Object value) {
    addAttr(name, String.valueOf(value));
}

protected void addMediaAttr(String name, EnumSet<Media> media) {
    // 6.13 comma-separated list
    addAttr(name, CJ.join(media));
}

protected void addRelAttr(String name, EnumSet<LinkType> types) {
    // 6.12 space-separated list
    addAttr(name, SJ.join(types));
}

private void startIfNeeded() {
    if (!started) {
        printStartTag(name, opts);
        started = true;
    }
}

protected void _inline(boolean choice) {
    if (choice) {
        opts.add(INLINE);
    } else {
        opts.remove(INLINE);
    }
}

protected void _endTag(boolean choice) {
    if (choice) {
        opts.add(ENDTAG);
    } else {
        opts.remove(ENDTAG);
    }
}

protected void _pre(boolean choice) {
    if (choice) {
        opts.add(PRE);
    } else {
        opts.remove(PRE);
    }
}
public class Generic<T extends _ > extends EImp<T> implements PCData {
    Generic(String name, T parent, EnumSet<EOpt> opts) {
        super(name, parent, opts);
    }

    public Generic<T> _inline() {
        super._inline(true);
        return this;
    }

    public Generic<T> _noEndTag() {
        super._endTag(false);
        return this;
    }

    public Generic<T> _pre() {
        super._pre(true);
        return this;
    }

    public Generic<T> _attr(String name, String value) {
        addAttr(name, value);
        return this;
    }

    public Generic<Generic<T>> _elem(String name, EnumSet<EOpt> opts) {
        closeAttrs();
        return new Generic<Generic<T>> (name, this, opts);
    }

    public Generic<Generic<T>> elem(String name) {
        return _elem(name, of(ENDTAG));
    }

    @Override
    public Generic<T> _(Object... lines) {
        _p(true, lines);
        return this;
    }

    @Override
    public Generic<T> _r(Object... lines) {
        _p(false, lines);
        return this;
    }
}
public HamletImpl(PrintWriter out, int nestLevel, boolean wasInline) {
    this.out = out;
    this.nestLevel = nestLevel;
    this.wasInline = wasInline;
}

public int nestLevel() {
    return nestLevel;
}

public boolean wasInline() {
    return wasInline;
}

public void setWasInline(boolean state) {
    wasInline = state;
}

public PrintWriter getWriter() {
    return out;
}

/**
 * Create a root-level generic element.
 * Mostly for testing purpose.
 * @param <T> type of the parent element
 * @param name of the element
 * @param opts {@link EOpt element options}
 * @return the element
 */
public <T extends _> Generic<T> root(String name, EnumSet<EOpt> opts) {
    return new Generic<T>(name, null, opts);
}

public <T extends _> Generic<T> root(String name) {
    return root(name, of(ENDTAG));
}

protected void printStartTag(String name, EnumSet<EOpt> opts) {
    indent(opts);
    sb.setLength(0);
    out.print(sb.append('<').append(name).toString()); // for easier mock test
}

protected void indent(EnumSet<EOpt> opts) {
    if (opts.contains(INLINE) && wasInline) {
return;
}
if (wasInline) {
    out.println();
}
wasInline = opts.contains(INLINE) || opts.contains(PRE);
for (int i = 0; i < nestLevel; ++i) {
    out.print(INDENT_CHARS);
}
++indents;

protected void printEndTag(String name, EnumSet<EOpt> opts) {
    if (!opts.contains(ENDTAG)) {
        return;
    }
    if (!opts.contains(PRE)) {
        indent(opts);
    } else {
        wasInline = opts.contains(INLINE);
    }
    sb.setLength(0);
    out.print(sb.append("</").append(name).append(">").toString()); // ditto
    if (!opts.contains(INLINE)) {
        out.println();
    }
}

protected void printAttr(String name, String value) {
    sb.setLength(0);
    sb.append(" ").append(name);
    if (value != null) {
        sb.append("=").append(escapeHtml(value)).append("\"");
    }
    out.print(sb.toString());
}

/**
 * Sub-classes should override this to do something interesting.
 * @param cls the sub-view class
 */
protected void subView(Class<? extends SubView> cls) {
    indent(of(ENDTAG)); // not an inline view
    sb.setLength(0);
    out.print(sb.append("[").append(cls.getName()).append("]").toString());
    out.println();
}
/**
 * Parse selector into id and classes
 * @param selector in the form of (#id)?(.class)*
 * @return an two element array [id, "space-separated classes"].
 * Either element could be null.
 * @throws WebAppException when both are null or syntax error.
 */
public static String[] parseSelector(String selector) {
    String[] result = new String[]{null, null};
    Iterable<String> rs = SS.split(selector);
    Iterator<String> it = rs.iterator();
    if (it.hasNext()) {
        String maybeId = it.next();
        if (maybeId.charAt(0) == '#') {
            result[S_ID] = maybeId.substring(1);
            if (it.hasNext()) {
                result[S_CLASS] = SJ.join(Iterables.skip(rs, 1));
            }
        } else {
            result[S_CLASS] = SJ.join(rs);
        }
    }
    return result;
}

/**
 * Set id and/or class attributes for an element.
 * @param <E> type of the element
 * @param e the element
 * @param selector Haml form of "(#id)?(.class)*"
 * @return the element
 */
public static <E extends CoreAttrs> E setSelector(E e, String selector) {
    String[] res = parseSelector(selector);
    if (res[S_ID] != null) {
        e.$id(res[S_ID]);
    }
    if (res[S_CLASS] != null) {
        e.$class(res[S_CLASS]);
    }
    return e;
}

public static <E extends LINK> E setLinkHref(E e, String href) {
    if (href.endsWith(".css")) {
        e.$rel("stylesheet"); // required in html5
    }
}
public static <E extends SCRIPT> E setScriptSrc(E e, String src) {
    if (src.endsWith(".js")) {
        e.$type("text/javascript"); // required in html4
    }
    e.$src(src);
    return e;
}

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 */
	package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoResponse;
import org.apache.hadoop.yarn.api.records.QueueUserACLInfo;
import org.apache.hadoop.yarn.api.records.impl.pb.QueueUserACLInfoPBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueUserAclsInfoResponsePBImpl extends GetQueueUserAclsInfoResponse {

List<QueueUserACLInfo> queueUserAclsInfoList;

GetQueueUserAclsInfoResponseProto proto =
    GetQueueUserAclsInfoResponseProto.getDefaultInstance();
GetQueueUserAclsInfoResponseProto.Builder builder = null;
boolean viaProto = false;

public GetQueueUserAclsInfoResponsePBImpl() {
    builder = GetQueueUserAclsInfoResponseProto.newBuilder();
}

public GetQueueUserAclsInfoResponsePBImpl(
    GetQueueUserAclsInfoResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public List<QueueUserACLInfo> getUserAclsInfoList() {
    initLocalQueueUserAclsList();
    return queueUserAclsInfoList;
}

@Override
public void setUserAclsInfoList(List<QueueUserACLInfo> queueUserAclsList) {
    if (queueUserAclsList == null) {
        builder.clearQueueUserAcls();
    }
    this.queueUserAclsInfoList = queueUserAclsList;
}

public GetQueueUserAclsInfoResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@override
public boolean equals(Object other) {

}
if (other == null)
    return false;
if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.queueUserAclsInfoList != null) {
        addLocalQueueUserACLInfosToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetQueueUserAclsInfoResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private void initLocalQueueUserAclsList() {
    if (this.queueUserAclsInfoList != null) {
        return;
    }
    GetQueueUserAclsInfoResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<QueueUserACLInfoProto> list = p.getQueueUserAclsList();
    queueUserAclsInfoList = new ArrayList<QueueUserACLInfo>();
    for (QueueUserACLInfoProto a : list) {
        queueUserAclsInfoList.add(convertFromProtoFormat(a));
    }
}
private void addLocalQueueUserACLInfosToProto() {
    maybeInitBuilder();
    builder.clearQueueUserAcls();
    if (queueUserAclsInfoList == null)
        return;
    Iterable<QueueUserACLInfoProto> iterable = new Iterable<QueueUserACLInfoProto>() {
        @Override
        public Iterator<QueueUserACLInfoProto> iterator() {
            return new Iterator<QueueUserACLInfoProto>() {
                Iterator<QueueUserACLInfo> iter = queueUserAclsInfoList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public QueueUserACLInfoProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        };
    builder.addAllQueueUserAcls(iterable);
}

private QueueUserACLInfoPBImpl convertFromProtoFormat(QueueUserACLInfoProto p) {
    return new QueueUserACLInfoPBImpl(p);
}

private QueueUserACLInfoProto convertToProtoFormat(QueueUserACLInfo t) {
    return ((QueueUserACLInfoPBImpl)t).getProto();
}

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Open Source Used In Secure Workload 3.6.1.1 32650
package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.NodeId;
import com.google.common.base.Preconditions;

@Private
@Unstable
public class NodeIdPBImpl extends NodeId {
    NodeIdProto proto = null;
    NodeIdProto.Builder builder = null;

    public NodeIdPBImpl() {
        builder = NodeIdProto.newBuilder();
    }

    public NodeIdPBImpl(NodeIdProto proto) {
        this.proto = proto;
    }

    public NodeIdProto getProto() {
        return proto;
    }

    @Override
    public String getHost() {
        Preconditions.checkNotNull(proto);
        return proto.getHost();
    }
}
@Override
protected void setHost(String host) {
    Preconditions.checkNotNull(builder);
    builder.setHost(host);
}

@Override
public int getPort() {
    Preconditions.checkNotNull(proto);
    return proto.getPort();
}

@Override
protected void setPort(int port) {
    Preconditions.checkNotNull(builder);
    builder.setPort(port);
}

@Override
protected void build() {
    proto = builder.build();
    builder = null;
}

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 * limitations under the License.
 */
	package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshNodesRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshNodesRequestPBImpl extends RefreshNodesRequest {

    RefreshNodesRequestProto proto = RefreshNodesRequestProto.getDefaultInstance();
    RefreshNodesRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshNodesRequestPBImpl() {
        builder = RefreshNodesRequestProto.newBuilder();
    }

    public RefreshNodesRequestPBImpl(RefreshNodesRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshNodesRequestProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }
}

/**
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package org.apache.hadoop.yarn.api.impl.pb.service;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocol;
import org.apache.hadoop.yarn.api.ApplicationMasterProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.protocolrecords.FinishApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.AllocateResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.FinishApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RegisterApplicationMasterResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.RegisterApplicationMasterRequestProto;

import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ApplicationMasterProtocolPBServiceImpl implements ApplicationMasterProtocolPB {

private ApplicationMasterProtocol real;
public ApplicationMasterProtocolPBServiceImpl(ApplicationMasterProtocol impl) {
    this.real = impl;
}

@Override
public AllocateResponseProto allocate(RpcController arg0,
    AllocateRequestProto proto) throws ServiceException {
    AllocateRequestPBImpl request = new AllocateRequestPBImpl(proto);
    try {
        AllocateResponse response = real.allocate(request);
        return ((AllocateResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public FinishApplicationMasterResponseProto finishApplicationMaster(
    RpcController arg0, FinishApplicationMasterRequestProto proto)
    throws ServiceException {
    FinishApplicationMasterRequestPBImpl request = new FinishApplicationMasterRequestPBImpl(proto);
    try {
        FinishApplicationMasterResponse response = real.finishApplicationMaster(request);
        return ((FinishApplicationMasterResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@Override
public RegisterApplicationMasterResponseProto registerApplicationMaster(
    RpcController arg0, RegisterApplicationMasterRequestProto proto)
    throws ServiceException {
    RegisterApplicationMasterRequestPBImpl request = new RegisterApplicationMasterRequestPBImpl(proto);
    try {
        RegisterApplicationMasterResponse response = real.registerApplicationMaster(request);
        return ((RegisterApplicationMasterResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateRequest;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ResourceBlacklistRequest;
import org.apache.hadoop.yarn.api.records.ResourceRequest;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ResourceBlacklistRequestPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ResourceRequestPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class AllocateRequestPBImpl extends AllocateRequest {
  AllocateRequestProto proto = AllocateRequestProto.getDefaultInstance();
  AllocateRequestProto proto = AllocateRequestProto.getDefaultInstance();
  AllocateRequestProto.proto = AllocateRequestProto.proto.getDefaultInstance();
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  AllocateRequestPro...
private List<ResourceRequest> ask = null;
private List<ContainerId> release = null;
private ResourceBlacklistRequest blacklistRequest = null;

public AllocateRequestPBImpl() {
    builder = AllocateRequestProto.newBuilder();
}

public AllocateRequestPBImpl(AllocateRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public AllocateRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.ask != null) {
        addAsksToProto();
    }
    if (this.release != null) {
        addReleasesToProto();
    }
}
if (this.blacklistRequest != null) {
    builder.setBlacklistRequest(convertToProtoFormat(this.blacklistRequest));
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = AllocateRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@override
public int getResponseId() {
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getResponseId();
}

@override
public void setResponseId(int id) {
    maybeInitBuilder();
    builder.setResponseId(id);
}

@override
public float getProgress() {
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getProgress();
}

@override
public void setProgress(float progress) {
    maybeInitBuilder();
    builder.setProgress(progress);
}

@override
public List<ResourceRequest> getAskList() {
    initAsks();
    return asks;
}
return this.ask;
}

@Override
public void setAskList(final List<ResourceRequest> resourceRequests) {
    if(resourceRequests == null) {
        return;
    }
    initAsks();
    this.ask.clear();
    this.ask.addAll(resourceRequests);
}

@Override
public ResourceBlacklistRequest getResourceBlacklistRequest() {
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.blacklistRequest != null) {
        return this.blacklistRequest;
    }
    if (!p.hasBlacklistRequest()) {
        return null;
    }
    this.blacklistRequest = convertFromProtoFormat(p.getBlacklistRequest());
    return this.blacklistRequest;
}

@Override
public void setResourceBlacklistRequest(ResourceBlacklistRequest blacklistRequest) {
    maybeInitBuilder();
    if (blacklistRequest == null) {
        builder.clearBlacklistRequest();
    }
    this.blacklistRequest = blacklistRequest;
}

private void initAsks() {
    if (this.ask != null) {
        return;
    }
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ResourceRequestProto> list = p.getAskList();
    this.ask = new ArrayList<ResourceRequest>();
    for (ResourceRequestProto c : list) {
        this.ask.add(convertFromProtoFormat(c));
    }
}
private void addAsksToProto() {
    maybeInitBuilder();
    builder.clearAsk();
    if (ask == null)
        return;
    Iterable<ResourceRequestProto> iterable = new Iterable<ResourceRequestProto>() {
        @Override
        public Iterator<ResourceRequestProto> iterator() {
            return new Iterator<ResourceRequestProto>() {
                Iterator<ResourceRequest> iter = ask.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ResourceRequestProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
        @Override
        public List<ContainerId> getReleaseList() {
            initReleases();
            return this.release;
        }
        @Override
        public void setReleaseList(List<ContainerId> releaseContainers) {
            if(releaseContainers == null) {
                return;
            }
            initReleases();
            this.release.clear();
            this.release.addAll(releaseContainers);
        }
    };
    builder.addAllAsk(iterable);
}

@Requires(*
    public List<ContainerId> getReleaseList() {
        initReleases();
        return this.release;
    }

@Requires(*
    public void setReleaseList(List<ContainerId> releaseContainers) {
        if(releaseContainers == null) {
            return;
        }
        initReleases();
        this.release.clear();
        this.release.addAll(releaseContainers);
    }

@Requires(*)
private void initReleases() {
    if (this.release != null) {
        return;
    }
    AllocateRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> list = p.getReleaseList();
    this.release = new ArrayList<ContainerId>();
    for (ContainerIdProto c : list) {
        this.release.add(convertFromProtoFormat(c));
    }
}

private void addReleasesToProto() {
    maybeInitBuilder();
    builder.clearRelease();
    if (release == null)
        return;
    Iterable<ContainerIdProto> iterable = new Iterable<ContainerIdProto>() {
        @Override
        public Iterator<ContainerIdProto> iterator() {
            @Override
            public boolean hasNext() {
                return iter.hasNext();
            }
            @Override
            public ContainerIdProto next() {
                return convertToProtoFormat(iter.next());
            }
            @Override
            public void remove() {
                throw new UnsupportedOperationException();
            }
        }
        Iterable<ContainerIdProto> iterable = new Iterable<ContainerIdProto>() {
            @Override
            public Iterator<ContainerIdProto> iterator() {
                return new Iterator<ContainerIdProto>() {
                    @Override
                    public boolean hasNext() {
                        return iter.hasNext();
                    }
                    @Override
                    public ContainerIdProto next() {
                        return convertToProtoFormat(iter.next());
                    }
                    @Override
                    public void remove() {
                        throw new UnsupportedOperationException();
                    }
                }
                return new Iterator<ContainerIdProto>() {
                    @Override
                    public boolean hasNext() {
                        return iter.hasNext();
                    }
                    @Override
                    public ContainerIdProto next() {
                        return convertToProtoFormat(iter.next());
                    }
                    @Override
                    public void remove() {
                        throw new UnsupportedOperationException();
                    }
                }
            }
        }
        builder.addAllRelease(iterable);
    }
}

private ResourceRequestPBImpl convertFromProtoFormat(ResourceRequestProto p) {
return new ResourceRequestPBImpl(p);
}

private ResourceRequestProto convertToProtoFormat(ResourceRequest t) {
    return ((ResourceRequestPBImpl)t).getProto();
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl)t).getProto();
}

private ResourceBlacklistRequestPBImpl convertFromProtoFormat(ResourceBlacklistRequestProto p) {
    return new ResourceBlacklistRequestPBImpl(p);
}

private ResourceBlacklistRequestProto convertToProtoFormat(ResourceBlacklistRequest t) {
    return ((ResourceBlacklistRequestPBImpl)t).getProto();
}

}  
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 */

package org.apache.hadoop.yarn.api.records.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ApplicationReport;
import org.apache.hadoop.yarn.api.records.QueueInfo;
import org.apache.hadoop.yarn.api.records.QueueState;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProto;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProtoOrBuilder;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class QueueInfoPBImpl extends QueueInfo {

QueueInfoProto proto = QueueInfoProto.getDefaultInstance();
QueueInfoProto.Builder builder = null;
boolean viaProto = false;

List<ApplicationReport> applicationsList;
List<QueueInfo> childQueuesList;

public QueueInfoPBImpl() {
    builder = QueueInfoProto.newBuilder();
}

public QueueInfoPBImpl(QueueInfoProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public List<ApplicationReport> getApplications() {
    initLocalApplicationsList();
    return this.applicationsList;
}

@Override
public float getCapacity() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasCapacity()) ? p.getCapacity() : -1;
}

@Override
public List<QueueInfo> getChildQueues() {
    initLocalChildQueuesList();
}
return this.childQueuesList;
}

@override
public float getCurrentCapacity() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasCurrentCapacity()) ? p.getCurrentCapacity() : 0;
}

@override
public float getMaximumCapacity() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasMaximumCapacity()) ? p.getMaximumCapacity() : -1;
}

@override
public String getQueueName() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    return (p.hasQueueName()) ? p.getQueueName() : null;
}

@override
public QueueState getQueueState() {
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasState()) {
        return null;
    }
    return convertFromProtoFormat(p.getState());
}

@override
public void setApplications(List<ApplicationReport> applications) {
    if (applications == null) {
        builder.clearApplications();
    }
    this.applicationsList = applications;
}

@override
public void setCapacity(float capacity) {
    maybeInitBuilder();
    builder.setCapacity(capacity);
}

@override
public void setChildQueues(List<QueueInfo> childQueues) {
    if (childQueues == null) {
        builder.clearChildQueues();
    }
this.childQueuesList = childQueues;

@Override
public void setCurrentCapacity(float currentCapacity) {
    maybeInitBuilder();
    builder.setCurrentCapacity(currentCapacity);
}

@Override
public void setMaximumCapacity(float maximumCapacity) {
    maybeInitBuilder();
    builder.setMaximumCapacity(maximumCapacity);
}

@Override
public void setQueueName(String queueName) {
    maybeInitBuilder();
    if (queueName == null) {
        builder.clearQueueName();
        return;
    }
    builder.setQueueName(queueName);
}

@Override
public void setQueueState(QueueState queueState) {
    maybeInitBuilder();
    if (queueState == null) {
        builder.clearState();
        return;
    }
    builder.setState(convertToProtoFormat(queueState));
}

public QueueInfoProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}
@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void initLocalApplicationsList() {
    if (this.applicationsList != null) {
        return;
    }
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    List<ApplicationReportProto> list = p.getApplicationsList();
    applicationsList = new ArrayList<ApplicationReport>();
    for (ApplicationReportProto a : list) {
        applicationsList.add(convertFromProtoFormat(a));
    }
}

private void addApplicationsToProto() {
    maybeInitBuilder();
    builder.clearApplications();
    if (applicationsList == null)
        return;
    Iterable<ApplicationReportProto> iterable = new Iterable<ApplicationReportProto>() {
        @Override
        public Iterator<ApplicationReportProto> iterator() {
            return new Iterator<ApplicationReportProto>() {
                Iterator<ApplicationReport> iter = applicationsList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ApplicationReportProto next() {
                    return convertToProtoFormat(iter.next());
                }
            };
        }

        @Override
        public boolean hasNext() {
            return iter.hasNext();
        }

        @Override
        public ApplicationReportProto next() {
            return convertToProtoFormat(iter.next());
        }
    });

    for (ApplicationReportProto a : iterable)
        applicationsList.add(convertFromProtoFormat(a));
}
@Override
public void remove() {
    throw new UnsupportedOperationException();
}

private void initLocalChildQueuesList() {
    if (this.childQueuesList != null) {
        return;
    }
    QueueInfoProtoOrBuilder p = viaProto ? proto : builder;
    List<QueueInfoProto> list = p.getChildQueuesList();
    childQueuesList = new ArrayList<QueueInfo>();

    for (QueueInfoProto a : list) {
        childQueuesList.add(convertFromProtoFormat(a));
    }
}

private void addChildQueuesInfoToProto() {
    maybeInitBuilder();
    builder.clearChildQueues();
    if (childQueuesList == null)
        return;
    Iterable<QueueInfoProto> iterable = new Iterable<QueueInfoProto>() {
        @Override
        public Iterator<QueueInfoProto> iterator() {
            return new Iterator<QueueInfoProto>() {
                Iterator<QueueInfo> iter = childQueuesList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public QueueInfoProto next() {
                    return convertToProtoFormat(iter.next());
                }
            };
        }

        @Override
        public Iterator<QueueInfoProto> iterator() {
            return new Iterator<QueueInfoProto>() {
                Iterator<QueueInfo> iter = childQueuesList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public QueueInfoProto next() {
                    return convertToProtoFormat(iter.next());
                }
            };
        }
    };
    builder.addAllApplications(iterable);
}
@Override
public void remove() {
    throw new UnsupportedOperationException();
}
;
;
builder.addAllChildQueues(iterable);
}

private void mergeLocalToBuilder() {
    if (this.childQueuesList != null) {
        addChildQueuesInfoToProto();
    }
    if (this.applicationsList != null) {
        addApplicationsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = QueueInfoProto.newBuilder(proto);
    }
    viaProto = false;
}

private ApplicationReportPBImpl convertFromProtoFormat(ApplicationReportProto a) {
    return new ApplicationReportPBImpl(a);
}

private ApplicationReportProto convertToProtoFormat(ApplicationReport t) {
    return ((ApplicationReportPBImpl)t).getProto();
}

private QueueInfoPBImpl convertFromProtoFormat(QueueInfoProto a) {
    return new QueueInfoPBImpl(a);
private QueueInfoProto convertToProtoFormat(QueueInfo q) {
    return ((QueueInfoPBImpl)q).getProto();
}

private QueueState convertFromProtoFormat(QueueStateProto q) {
    return ProtoUtils.convertFromProtoFormat(q);
}

private QueueStateProto convertToProtoFormat(QueueState queueState) {
    return ProtoUtils.convertToProtoFormat(queueState);
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.SerializedException;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerStatusPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.SerializedExceptionPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.SerializedExceptionProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetContainerStatusesResponsePBImpl extends GetContainerStatusesResponse {
    GetContainerStatusesResponseProto proto = GetContainerStatusesResponseProto.getDefaultInstance();
    GetContainerStatusesResponseProto.Builder builder = null;
    boolean viaProto = false;

    private List<ContainerStatus> containerStatuses = null;
    private Map<ContainerId, SerializedException> failedRequests = null;

    public GetContainerStatusesResponsePBImpl() {
        builder = GetContainerStatusesResponseProto.newBuilder();
    }

    public GetContainerStatusesResponsePBImpl(GetContainerStatusesResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetContainerStatusesResponsePBImpl(GetContainerStatusesResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetContainerStatusesResponseProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;

    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
} return false;

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.containerStatuses != null) {
        addLocalContainerStatusesToProto();
    }
    if (this.failedRequests != null) {
        addFailedRequestsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetContainerStatusesResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

private void addLocalContainerStatusesToProto() {
    maybeInitBuilder();
    builder.clearStatus();
    if (this.containerStatuses == null)
        return;
    List<ContainerStatusProto> protoList =
        new ArrayList<ContainerStatusProto>();
    for (ContainerStatus status : containerStatuses) {
        protoList.add(convertToProtoFormat(status));
    }
    builder.addAllStatus(protoList);
}
private void addFailedRequestsToProto() {
    maybeInitBuilder();
    builder.clearFailedRequests();
    if (this.failedRequests == null) return;
    List<ContainerExceptionMapProto> protoList =
        new ArrayList<ContainerExceptionMapProto>();
    for (Map.Entry<ContainerId, SerializedException> entry : this.failedRequests.entrySet()) {
        protoList.add(ContainerExceptionMapProto.newBuilder()
            .setContainerId(convertToProtoFormat(entry.getKey()))
            .setException(convertToProtoFormat(entry.getValue())).build());
    }
    builder.addAllFailedRequests(protoList);
}

private void initLocalContainerStatuses() {
    if (this.containerStatuses != null) return;
    GetContainerStatusesResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerStatusProto> statuses = p.getStatusList();
    this.containerStatuses = new ArrayList<ContainerStatus>();
    for (ContainerStatusProto status : statuses) {
        this.containerStatuses.add(convertFromProtoFormat(status));
    }
}

private void initFailedRequests() {
    if (this.failedRequests != null) return;
    GetContainerStatusesResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerExceptionMapProto> protoList = p.getFailedRequestsList();
    this.failedRequests = new HashMap<ContainerId, SerializedException>();
    for (ContainerExceptionMapProto ce : protoList) {
        this.failedRequests.put(convertFromProtoFormat(ce.getContainerId()),
            convertFromProtoFormat(ce.getException()));
    }
}

@Override
public List<ContainerStatus> getContainerStatuses() {
    initLocalContainerStatuses();
    return this.containerStatuses;
}

@Override
public void setContainerStatuses(List<ContainerStatus> statuses) {
    maybeInitBuilder();
    if (statuses == null)
        builder.clearStatus();
    this.containerStatuses = statuses;
}

@Override
public Map<ContainerId, SerializedException> getFailedRequests() {
    initFailedRequests();
    return this.failedRequests;
}

@Override
public void setFailedRequests(
    Map<ContainerId, SerializedException> failedRequests) {
    maybeInitBuilder();
    if (failedRequests == null)
        builder.clearFailedRequests();
    this.failedRequests = failedRequests;
}

private ContainerStatusPBImpl convertFromProtoFormat(ContainerStatusProto p) {
    return new ContainerStatusPBImpl(p);
}

private ContainerStatusProto convertToProtoFormat(ContainerStatus t) {
    return ((ContainerStatusPBImpl) t).getProto();
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

private SerializedExceptionPBImpl convertFromProtoFormat(
    SerializedExceptionProto p) {
    return new SerializedExceptionPBImpl(p);
}

private SerializedExceptionProto convertToProtoFormat(SerializedException t) {
    return ((SerializedExceptionPBImpl) t).getProto();
}
package org.apache.hadoop.yarn.webapp.log;

import static org.apache.hadoop.yarn.webapp.YarnWebParams.CONTAINER_ID;
import static org.apache.hadoop.yarn.webapp.YarnWebParams.ENTITY_STRING;
import static org.apache.hadoop.yarn.util.StringHelper.join;
import static org.apache.hadoop.yarn.webapp.view.JQueryUI.ACCORDION;
import static org.apache.hadoop.yarn.webapp.view.JQueryUI.ACCORDION_ID;
import static org.apache.hadoop.yarn.webapp.view.JQueryUI.initID;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.yarn.webapp.SubView;
import org.apache.hadoop.yarn.webapp.view.TwoColumnLayout;

@InterfaceAudience.LimitedPrivate({"YARN", "MapReduce"})
public class AggregatedLogsPage extends TwoColumnLayout {

/* (non-Javadoc)
 * @see org.apache.hadoop.yarn.server.nodemanager.webapp.NMView#preHead(org.apache.hadoop.yarn.webapp.hamlet.H
 *     amlet.HTML)
 */
@Override
protected void preHead(Page.HTML<_> html) {
    String logEntity = $(ENTITY_STRING);
    if (logEntity == null || logEntity.isEmpty()) {
        logEntity = $(CONTAINER_ID);
    }
    if (logEntity == null || logEntity.isEmpty()) {
        logEntity = "UNKNOWN";
    }
    html.
}
set(TITLE, join("Logs for ", logEntity));
set(ACCORDION_ID, "nav");
set(initID(ACCORDION, "nav"), "{autoHeight:false, active:0}");

@Override
protected Class<? extends SubView> content() {
    return AggregatedLogsBlock.class;
}

@Override
protected Class<? extends SubView> nav() {
    return AggregatedLogsNavBlock.class;
}

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 * */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class CancelDelegationTokenResponsePBImpl extends CancelDelegationTokenResponse {
    CancelDelegationTokenResponseProto proto = CancelDelegationTokenResponseProto
        .getDefaultInstance();

    CancelDelegationTokenResponseProto proto = CancelDelegationTokenResponseProto
        .getDefaultInstance();
public CancelDelegationTokenResponsePBImpl() {
}

public CancelDelegationTokenResponsePBImpl(CancelDelegationTokenResponseProto proto) {
    this.proto = proto;
}

public CancelDelegationTokenResponseProto getProto() {
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.records.ApplicationReport;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetApplicationsResponsePBImpl
extends GetApplicationsResponse {

GetApplicationsResponseProto proto =
    GetApplicationsResponseProto.getDefaultInstance();
GetApplicationsResponseProto.Builder builder = null;
boolean viaProto = false;

List<ApplicationReport> applicationList;

public GetApplicationsResponsePBImpl() {
    builder = GetApplicationsResponseProto.newBuilder();
}

public GetApplicationsResponsePBImpl() {
    builder = GetApplicationsResponseProto.newBuilder();
}

public GetApplicationsResponsePBImpl(GetApplicationsResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public List<ApplicationReport> getApplicationList() {
    initLocalApplicationsList();
    return this.applicationList;
}

@Override

public void setApplicationList(List<ApplicationReport> applications) {
    maybeInitBuilder();
    if (applications == null)
        builder.clearApplications();
    this.applicationList = applications;
}

public GetApplicationsResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationList != null) {
        addLocalApplicationsToProto();
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}
private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationsResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private void initLocalApplicationsList() {
    if (this.applicationList != null) {
        return;
    }
    GetApplicationsResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ApplicationReportProto> list = p.getApplicationsList();
    applicationList = new ArrayList<ApplicationReport> ();

    for (ApplicationReportProto a : list) {
        applicationList.add(convertFromProtoFormat(a));
    }
}

private void addLocalApplicationsToProto() {
    maybeInitBuilder();
    builder.clearApplications();
    if (applicationList == null)
        return;
    Iterable<ApplicationReportProto> iterable = new Iterable<ApplicationReportProto>() {
        @Override
        public Iterator<ApplicationReportProto> iterator() {
            return new Iterator<ApplicationReportProto>() {
                Iterator<ApplicationReport> iter = applicationList.iterator();
                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ApplicationReportProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            }
        }
    }
    ApplicationReportProto iterable = new Iterable<ApplicationReportProto> () {
        @Override
        public Iterator<ApplicationReportProto> iterator() {
            return new Iterator<ApplicationReportProto>() {
                Iterator<ApplicationReport> iter = applicationList.iterator();
                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public ApplicationReportProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            }
        }
    };
}
private ApplicationReportPBImpl convertFromProtoFormat(ApplicationReportProto p) {
    return new ApplicationReportPBImpl(p);
}

private ApplicationReportProto convertToProtoFormat(ApplicationReport t) {
    return ((ApplicationReportPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.records.YarnClusterMetrics;
import org.apache.hadoop.yarn.api.records.impl.pb.YarnClusterMetricsPBImpl;
import com.google.protobuf.TextFormat;

import com.google.protobuf.TextFormat;
@Private
@Unstable
public class GetClusterMetricsResponsePBImpl extends GetClusterMetricsResponse {
    GetClusterMetricsResponseProto proto = GetClusterMetricsResponseProto.getDefaultInstance();
    GetClusterMetricsResponseProto.Builder builder = null;
    boolean viaProto = false;

    private YarnClusterMetrics yarnClusterMetrics = null;

    public GetClusterMetricsResponsePBImpl() {
        builder = GetClusterMetricsResponseProto.newBuilder();
    }

    public GetClusterMetricsResponsePBImpl(GetClusterMetricsResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetClusterMetricsResponseProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }

    private void mergeLocalToBuilder() {

if (this.yarnClusterMetrics != null) {
    builder.setClusterMetrics(convertToProtoFormat(this.yarnClusterMetrics));
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetClusterMetricsResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public YarnClusterMetrics getClusterMetrics() {
    GetClusterMetricsResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.yarnClusterMetrics != null) {
        return this.yarnClusterMetrics;
    }
    if (!p.hasClusterMetrics()) {
        return null;
    }
    this.yarnClusterMetrics = convertFromProtoFormat(p.getClusterMetrics());
    return this.yarnClusterMetrics;
}

@Override
public void setClusterMetrics(YarnClusterMetrics clusterMetrics) {
    maybeInitBuilder();
    if (clusterMetrics == null)
        builder.clearClusterMetrics();
    this.yarnClusterMetrics = clusterMetrics;
}

private YarnClusterMetricsPBImpl convertFromProtoFormat(YarnClusterMetricsProto p) {
    return new YarnClusterMetricsPBImpl(p);
}

private YarnClusterMetricsProto convertToProtoFormat(YarnClusterMetrics t) {
    return ((YarnClusterMetricsPBImpl)t).getProto();
}
 GUI
public class RegisterApplicationMasterResponsePBImpl extends RegisterApplicationMasterResponse {
  RegisterApplicationMasterResponseProto proto =
  RegisterApplicationMasterResponseProto.getDefaultInstance();
  RegisterApplicationMasterResponseProto.Builder builder = null;
  boolean viaProto = false;

  private Resource maximumResourceCapability;
  private Map<ApplicationAccessType, String> applicationACLS = null;

  public RegisterApplicationMasterResponsePBImpl() {
    builder = RegisterApplicationMasterResponseProto.newBuilder();
  }

  public RegisterApplicationMasterResponsePBImpl(RegisterApplicationMasterResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public RegisterApplicationMasterResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public boolean equals(Object other) {
    if (other == null)
      return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
      return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
  }

  @Override
  public String toString() {
    return TextFormat.shortDebugString(getProto());
  }
}
private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (this.maximumResourceCapability != null) {
        builder.setMaximumCapability(
            convertToProtoFormat(this.maximumResourceCapability));
    }
    if (this.applicationACLS != null) {
        addApplicationACLs();
    }
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RegisterApplicationMasterResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@override
public Resource getMaximumResourceCapability() {
    if (this.maximumResourceCapability != null) {
        return this.maximumResourceCapability;
    }
    RegisterApplicationMasterResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasMaximumCapability()) {
        return null;
    }
    this.maximumResourceCapability = convertFromProtoFormat(p.getMaximumCapability());
    return this.maximumResourceCapability;
}

@override
public void setMaximumResourceCapability(Resource capability) {
    maybeInitBuilder();
    if (maximumResourceCapability == null) {
        builder.clearMaximumCapability();
    }
    this.maximumResourceCapability = capability;
@Override
public Map<ApplicationAccessType, String> getApplicationACLs() {
    initApplicationACLs();
    return this.applicationACLS;
}

private void initApplicationACLs() {
    if (this.applicationACLS != null) {
        return;
    }
    RegisterApplicationMasterResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ApplicationACLMapProto> list = p.getApplicationACLsList();
    this.applicationACLS = new HashMap<ApplicationAccessType, String>(list.size());

    for (ApplicationACLMapProto aclProto : list) {
        this.applicationACLS.put(ProtoUtils.convertFromProtoFormat(aclProto.getAccessType()), aclProto.getAcl());
    }
}

private void addApplicationACLs() {
    maybeInitBuilder();
    builder.clearApplicationACLs();
    if (applicationACLS == null) {
        return;
    }
    Iterable<? extends ApplicationACLMapProto> values = new Iterable<ApplicationACLMapProto>() {
        @Override
        public Iterator<ApplicationACLMapProto> iterator() {
            return new Iterator<ApplicationACLMapProto>() {
                @Override
                public boolean hasNext() {
                    return aclsIterator.hasNext();
                }

                @Override
                public ApplicationACLMapProto next() {
                    ApplicationAccessType key = aclsIterator.next();
                    return ApplicationACLMapProto.newBuilder().setAcl(
                }

           ATAB
applicationACLS.get(key)).setAccessType(
    ProtoUtils.convertToProtoFormat(key)).build();
}

@Override
public void remove() {
    throw new UnsupportedOperationException();
}
};

this.builder.addAllApplicationACLs(values);
}

@Override
public void setApplicationACLs(
    final Map<ApplicationAccessType, String> appACLs) {
    if (appACLs == null)
        return;
    initApplicationACLs();
    this.applicationACLS.clear();
    this.applicationACLS.putAll(appACLs);
}

@Override
public void setClientToAMTokenMasterKey(ByteBuffer key) {
    if (key == null) {
        builder.clearClientToAmTokenMasterKey();
        return;
    } maybeInitBuilder();
    builder.setClientToAmTokenMasterKey(ByteString.copyFrom(key));
}

@Override
public ByteBuffer getClientToAMTokenMasterKey() {
    maybeInitBuilder();
    ByteBuffer key =
        ByteBuffer.wrap(builder.getClientToAmTokenMasterKey().toByteArray());
    return key;
}

private Resource convertFromProtoFormat(ResourceProto resource) {
    return new ResourcePBImpl(resource);
}

private ResourceProto convertToProtoFormat(Resource resource) {
    return ((ResourcePBImpl)resource).getProto();
}
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.EnumSet;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Set;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsRequest;
import org.apache.hadoop.yarn.api.records.YarnApplicationState;
import org.apache.hadoop.yarn.api.records.impl.pb.ProtoUtils;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetApplicationsRequestPBImpl extends GetApplicationsRequest {
  GetApplicationsRequestProto proto = GetApplicationsRequestProto.getDefaultInstance();
  GetApplicationsRequestProto.Builder builder = null;
  boolean viaProto = false;
  Set<String> applicationTypes = null;

  public GetApplicationsRequestPBImpl() {
    proto = GetApplicationsRequestProto.getDefaultInstance();
  }

  public GetApplicationsRequestPBImpl(GetApplicationsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public GetApplicationsRequestProto getProto() {
    return proto;
  }

  public void setProto(GetApplicationsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public GetApplicationsRequestProtoOrBuilder newBuilder() {
    GetApplicationsRequestProto.Builder newProto = proto.newBuilderForType(GetApplicationsRequestProto.class);
    newProto.setApplicationState(YarnApplicationStateProto.getDefaultInstance());
    return newProto;
  }

  public static GetApplicationsRequestPBImpl parseFrom(byte[] data)
  }

  public static GetApplicationsRequestPBImpl parseFrom(InputStream input)
  }

  public static GetApplicationsRequestPBImpl parseFrom(Reader reader)
  }

  public static GetApplicationsRequestPBImpl parseFrom(InputStream input, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(Reader reader, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(byte[] data, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(InputStream input, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(Reader reader, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(byte[] data, int offset, int length)
  }

  public static GetApplicationsRequestPBImpl parseFrom(InputStream input, int offset, int length)
  }

  public static GetApplicationsRequestPBImpl parseFrom(Reader reader, int offset, int length)
  }

  public static GetApplicationsRequestPBImpl parseFrom(byte[] data, int offset, int length, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(InputStream input, int offset, int length, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(Reader reader, int offset, int length, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProto proto)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProto proto, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProtoOrBuilder builder)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProtoOrBuilder builder, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProto proto, int offset, int length)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProto proto, int offset, int length, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProtoOrBuilder builder, int offset, int length)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProtoOrBuilder builder, int offset, int length, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProtoOrBuilder builder, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProtoOrBuilder builder, int offset, int length, Predicate<Object> predicate)
  }

  public static GetApplicationsRequestPBImpl parseFrom(GetApplicationsRequestProtoOrBuilder builder, Predicate<Object> predicate)
  }

  public static ParseOptions parseOptions()
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate)
  }

  public static ParseOptions parseOptions(int offset, int length)
  }

  public static ParseOptions parseOptions(int offset, int length, Predicate<Object> predicate)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }

  public static ParseOptions parseOptions(Predicate<Object> predicate, int offset, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length, int length)
  }
public GetApplicationsRequestPBImpl() {
    builder = GetApplicationsRequestProto.newBuilder();
}

public GetApplicationsRequestPBImpl(GetApplicationsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetApplicationsRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (this.applicationTypes != null) {
        addLocalApplicationTypesToProto();
    }
    if (this.applicationStates != null) {
        maybeInitBuilder();
        builder.clearApplicationStates();
        Iterable<YarnApplicationStateProto> iterable = 
            new Iterable<YarnApplicationStateProto>() {

                @Override
                public Iterator<YarnApplicationStateProto> iterator() {
                    return new Iterator<YarnApplicationStateProto>() {
                        Iterator<YarnApplicationState> iter = applicationStates
                            .iterator();

                        @Override
                        public boolean hasNext() {
                            return iter.hasNext();
                        }
@Override
public YarnApplicationStateProto next() {
    return ProtoUtils.convertToProtoFormat(iter.next());
}

@Override
public void remove() {
    throw new UnsupportedOperationException();
}

private void addLocalApplicationTypesToProto() {
    maybeInitBuilder();
    builder.clearApplicationTypes();
    if (this.applicationTypes == null)
        return;
    builder.addAllApplicationTypes(applicationTypes);
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetApplicationsRequestProto.newBuilder(proto);
        viaProto = false;
    }
}

private void initApplicationTypes() {
    if (this.applicationTypes != null)
        return;
    GetApplicationsRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<String> appTypeList = p.getApplicationTypesList();
    this.applicationTypes = new HashSet<String>();
    this.applicationTypes.addAll(appTypeList);
}

private void initApplicationStates() {
    if (this.applicationStates != null)
        return;
    GetApplicationsRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ApplicationStateProto> appStatesList = p.getApplicationStatesList();
    this.applicationStates = new ArrayList<ApplicationStateProto>();
    this.applicationStates.addAll(appStatesList);
}
List<YarnApplicationStateProto> appStatesList =
   p.getApplicationStatesList();
this.applicationStates = EnumSet.noneOf(YarnApplicationState.class);

for (YarnApplicationStateProto c : appStatesList) {
   this.applicationStates.add(ProtoUtils.convertFromProtoFormat(c));
}

@Override
public Set<String> getApplicationTypes() {
   initApplicationTypes();
   return this.applicationTypes;
}

@Override
public void setApplicationTypes(Set<String> applicationTypes) {
   maybeInitBuilder();
   if (applicationTypes == null)
      builder.clearApplicationTypes();
   this.applicationTypes = applicationTypes;
}

@Override
public EnumSet<YarnApplicationState> getApplicationStates() {
   initApplicationStates();
   return this.applicationStates;
}

@Override
public void setApplicationStates(EnumSet<YarnApplicationState> applicationStates) {
   maybeInitBuilder();
   if (applicationStates == null) {
      builder.clearApplicationStates();
   }
   this.applicationStates = applicationStates;
}

@Override
public int hashCode() {
   return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
   if (other == null)
      return false;
   if (other.getClass().isAssignableFrom(this.getClass())) {


return this.getProto().equals(this.getClass().cast(other).getProto());
} return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}
}
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 */
package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshAdminAclsRequest;
import com.google.protobuf.TextFormat;
@Private
@Unstable
public class RefreshAdminAclsRequestPBImpl
extends RefreshAdminAclsRequest {

RefreshAdminAclsRequestProto proto = RefreshAdminAclsRequestProto.getDefaultInstance();
RefreshAdminAclsRequestProto.Builder builder = null;
boolean viaProto = false;

public RefreshAdminAclsRequestPBImpl() {
    builder = RefreshAdminAclsRequestProto.newBuilder();
public RefreshAdminAclsRequestPBImpl(RefreshAdminAclsRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public RefreshAdminAclsRequestProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
package org.apache.hadoop.yarn.server.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.server.api.protocolrecords.RefreshQueuesRequest;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RefreshQueuesRequestPBImpl extends RefreshQueuesRequest {

    RefreshQueuesRequestProto proto = RefreshQueuesRequestProto.getDefaultInstance();
    RefreshQueuesRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RefreshQueuesRequestPBImpl() {
        builder = RefreshQueuesRequestProto.newBuilder();
    }

    public RefreshQueuesRequestPBImpl(RefreshQueuesRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RefreshQueuesRequestProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }
}

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@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationResponse;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class SubmitApplicationResponsePBImpl extends SubmitApplicationResponse {
    SubmitApplicationResponseProto proto = SubmitApplicationResponseProto.getDefaultInstance();
    SubmitApplicationResponseProto.Builder builder = null;
    boolean viaProto = false;

    public SubmitApplicationResponsePBImpl() {
        builder = SubmitApplicationResponseProto.newBuilder();
    }

    public SubmitApplicationResponsePBImpl(SubmitApplicationResponseProto proto) {
        this.proto = proto;
    }
}
viaProto = true;
}

public SubmitApplicationResponseProto getProto() {
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.ResourcePBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationIdProto;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetNewApplicationResponsePBImpl extends GetNewApplicationResponse {
  GetNewApplicationResponseProto proto = GetNewApplicationResponseProto.getDefaultInstance();
  GetNewApplicationResponseProto.Builder builder = null;
  boolean viaProto = false;

  private ApplicationId applicationId = null;
  private Resource maximumResourceCapability = null;

  public GetNewApplicationResponsePBImpl() {
    builder = GetNewApplicationResponseProto.newBuilder();
  }

  public GetNewApplicationResponsePBImpl(GetNewApplicationResponseProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public GetNewApplicationResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
}
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (applicationId != null) {
        builder.setApplicationId(convertToProtoFormat(this.applicationId));
    }
    if (maximumResourceCapability != null) {
        builder.setMaximumCapability(convertToProtoFormat(this.maximumResourceCapability));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetNewApplicationResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationId getApplicationId() {
    if (this.applicationId != null) {
        return this.applicationId;
    }
    if (!p.hasApplicationId()) {
        return null;
    }
    return p.getApplicationId();
}
this.applicationId = convertFromProtoFormat(p.getApplicationId());
return this.applicationId;
}

@Override
public void setApplicationId(ApplicationId applicationId) {
  maybeInitBuilder();
  if (applicationId == null)
    builder.clearApplicationId();
  this.applicationId = applicationId;
}

@Override
public Resource getMaximumResourceCapability() {
  if (this.maximumResourceCapability != null) {
    return this.maximumResourceCapability;
  }
  if (!p.hasMaximumCapability()) {
    return null;
  }
  this.maximumResourceCapability = convertFromProtoFormat(p.getMaximumCapability());
  return this.maximumResourceCapability;
}

@Override
public void setMaximumResourceCapability(Resource capability) {
  maybeInitBuilder();
  if (maximumResourceCapability == null) {
    builder.clearMaximumCapability();
  }
  this.maximumResourceCapability = capability;
}

private ApplicationIdPBImpl convertFromProtoFormat(ApplicationIdProto p) {
  return new ApplicationIdPBImpl(p);
}

private ApplicationIdProto convertToProtoFormat(ApplicationId t) {
  return ((ApplicationIdPBImpl)t).getProto();
}

private Resource convertFromProtoFormat(ResourceProto resource) {
  return new ResourcePBImpl(resource);
```java
private ResourceProto convertToProtoFormat(Resource resource) {
    return ((ResourcePBImpl)resource).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesRequest;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetContainerStatusesRequestPBImpl extends GetContainerStatusesRequest {
    GetContainerStatusesRequestProto proto = GetContainerStatusesRequestProto.getDefaultInstance();
    GetContainerStatusesRequestProtoOrBuilder protoOrBuilder = null;
```

---

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boolean viaProto = false;

private List<ContainerId> containerIds = null;

public GetContainerStatusesRequestPBImpl() {
    builder = GetContainerStatusesRequestProto.newBuilder();
}

public GetContainerStatusesRequestPBImpl(GetContainerStatusesRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetContainerStatusesRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.containerIds != null) {
        addLocalContainerIdsToProto();
    }
}

private void mergeLocalToProto() {

if (viaProto)
    maybeInitBuilder();
mergeLocalToBuilder();
proto = builder.build();
viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetContainerStatusesRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private void addLocalContainerIdsToProto() {
    maybeInitBuilder();
    builder.clearContainerId();
    if (this.containerIds == null)
        return;
    List<ContainerIdProto> protoList = new ArrayList<ContainerIdProto>();
    for (ContainerId id : containerIds) {
        protoList.add(convertToProtoFormat(id));
    }
    builder.addAllContainerId(protoList);
}

private void initLocalContainerIds() {
    if (this.containerIds != null) {
        return;
    }
    GetContainerStatusesRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerIdProto> containerIds = p.getContainerIdList();
    this.containerIds = new ArrayList<ContainerId>();
    for (ContainerIdProto id : containerIds) {
        this.containerIds.add(convertFromProtoFormat(id));
    }
}

@Override
public List<ContainerId> getContainerIds() {
    initLocalContainerIds();
    return this.containerIds;
}

@Override
public void setContainerIds(List<ContainerId> containerIds) {
    maybeInitBuilder();
    if (containerIds == null)
builder.clearContainerId();
this.containerIds = containerIds;
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoResponse;
import org.apache.hadoop.yarn.api.records.QueueInfo;
import org.apache.hadoop.yarn.api.records.impl.pb.QueueInfoPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.QueueInfoProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueInfoResponsePBImpl extends GetQueueInfoResponse {

QueueInfo queueInfo;

GetQueueInfoResponseProto proto =
    GetQueueInfoResponseProto.getDefaultInstance();
GetQueueInfoResponseProto.Builder builder = null;
boolean viaProto = false;

public GetQueueInfoResponsePBImpl() {
    builder = GetQueueInfoResponseProto.newBuilder();
}

public GetQueueInfoResponsePBImpl(GetQueueInfoResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public GetQueueInfoResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

@Override
public QueueInfo getQueueInfo() {
    if (this.queueInfo != null) {
        return this.queueInfo;
    }
}
GetQueueInfoResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasQueueInfo()) {
        return null;
    }
    this.queueInfo = convertFromProtoFormat(p.getQueueInfo());
    return this.queueInfo;
}

@Override
public void setQueueInfo(QueueInfo queueInfo) {
    maybeInitBuilder();
    if (queueInfo == null) {
        builder.clearQueueInfo();
    }
    this.queueInfo = queueInfo;
}

private void mergeLocalToBuilder() {
    if (this.queueInfo != null) {
        builder.setQueueInfo(convertToProtoFormat(this.queueInfo));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetQueueInfoResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

private QueueInfo convertFromProtoFormat(QueueInfoProto queueInfo) {
    return new QueueInfoPBImpl(queueInfo);
}

private QueueInfoProto convertToProtoFormat(QueueInfo queueInfo) {
    return ((QueueInfoPBImpl)queueInfo).getProto();
}
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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetQueueUserAclsInfoRequestPBImpl extends GetQueueUserAclsInfoRequest {

    GetQueueUserAclsInfoRequestProto proto =
    GetQueueUserAclsInfoRequestProto.getDefaultInstance();
    GetQueueUserAclsInfoRequestProto.Builder builder = null;
    boolean viaProto = false;

    public GetQueueUserAclsInfoRequestPBImpl() {
        builder = GetQueueUserAclsInfoRequestProto.newBuilder();
    }

    public GetQueueUserAclsInfoRequestPBImpl(GetQueueUserAclsInfoRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetQueueUserAclsInfoRequestProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
    }
}
return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationRequest;
import org.apache.hadoop.yarn.api.records.ApplicationId;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationRequest;
import org.apache.hadoop.yarn.api.records.ApplicationId;
import org.apache.hadoop.yarn.api.records.impl.pb.ApplicationIdPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationIdProto;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class KillApplicationRequestPBImpl extends KillApplicationRequest {
  KillApplicationRequestProto proto = KillApplicationRequestProto.getDefaultInstance();
  KillApplicationRequestProto.Builder builder = null;
  boolean viaProto = false;

  private ApplicationId applicationId = null;

  public KillApplicationRequestPBImpl() {
    builder = KillApplicationRequestProto.newBuilder();
  }

  public KillApplicationRequestPBImpl(KillApplicationRequestProto proto) {
    this.proto = proto;
    viaProto = true;
  }

  public KillApplicationRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
  }

  @Override
  public int hashCode() {
    return getProto().hashCode();
  }

  @Override
  public boolean equals(Object other) {
    if (other == null)
      return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
      return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
  }
}
@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.applicationId != null) {
        builder.setApplicationId(convertToProtoFormat(this.applicationId));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = KillApplicationRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public ApplicationId getApplicationId() {
    KillApplicationRequestProtoOrBuilder p = viaProto ? proto : builder;
    if (this.applicationId != null) {
        return this.applicationId;
    }
    if (!p.hasApplicationId()) {
        return null;
    }
    this.applicationId = convertFromProtoFormat(p.getApplicationId());
    return this.applicationId;
}

@Override
public void setApplicationId(ApplicationId applicationId) {
    maybeInitBuilder();
    if (applicationId == null)
        builder.clearApplicationId();
    this.applicationId = applicationId;
}
private ApplicationIdPBImpl convertFromProtoFormat(ApplicationIdProto p) {
    return new ApplicationIdPBImpl(p);
}

private ApplicationIdProto convertToProtoFormat(ApplicationId t) {
    return ((ApplicationIdPBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.factories.impl.pb;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.net.InetSocketAddress;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.factories.RpcClientFactory;
@Private
public class RpcClientFactoryPBImpl implements RpcClientFactory {

}
private static final Log LOG = LogFactory.getLog(RpcClientFactoryPBImpl.class);

private static final String PB_IMPL_PACKAGE_SUFFIX = "impl.pb.client";
private static final String PB_IMPL_CLASS_SUFFIX = "PBClientImpl";

private static final RpcClientFactoryPBImpl self = new RpcClientFactoryPBImpl();
private Configuration localConf = new Configuration();
private ConcurrentHashMap<Class<?>, Constructor<?>> cache = new ConcurrentHashMap<Class<?>, Constructor<?>>();

public static RpcClientFactoryPBImpl get() {
    return RpcClientFactoryPBImpl.self;
}

private RpcClientFactoryPBImpl() {
}

public Object getClient(Class<?> protocol, long clientVersion, InetSocketAddress addr, Configuration conf) {

    Constructor<?> constructor = cache.get(protocol);
    if (constructor == null) {
        Class<?> pbClazz = null;
        try {
            pbClazz = localConf.getClassByName(getPBImplClassName(protocol));
        } catch (ClassNotFoundException e) {
            throw new YarnRuntimeException("Failed to load class: ", getPBImplClassName(protocol) + ", ", e);
        }
        try {
            constructor = pbClazz.getConstructor(Long.TYPE, InetSocketAddress.class, Configuration.class);
            constructor.setAccessible(true);
            cache.putIfAbsent(protocol, constructor);
        } catch (NoSuchMethodException e) {
            throw new YarnRuntimeException("Could not find constructor with params: ", Long.TYPE + ", ", + InetSocketAddress.class + ", ", + Configuration.class, e);
        }
    }

    try {
        Object retObject = constructor.newInstance(clientVersion, addr, conf);
        return retObject;
    } catch (InvocationTargetException e) {
        throw new YarnRuntimeException(e);
    } catch (IllegalAccessException e) {
        throw new YarnRuntimeException(e);
    } catch (InstantiationException e) {
        throw new YarnRuntimeException(e);
@Override
public void stopClient(Object proxy) {
    try {
        Method closeMethod = proxy.getClass().getMethod("close");
        closeMethod.invoke(proxy);
    } catch (InvocationTargetException e) {
        throw new YarnRuntimeException(e);
    } catch (Exception e) {
        LOG.error("Cannot call close method due to Exception. 
" + "Ignoring.", e);
        throw new YarnRuntimeException(e);
    }
}

private String getPBImplClassName(Class<? super clazz> clazz) {
    String srcPackagePart = getPackageName(clazz);
    String srcClassName = getClassName(clazz);
    String destPackagePart = srcPackagePart + PB_IMPL_PACKAGE_SUFFIX;
    String destClassPart = srcClassName + PB_IMPL_CLASS_SUFFIX;
    return destPackagePart + "." + destClassPart;
}

private String getClassName(Class<? super clazz> clazz) {
    String fqName = clazz.getName();
    return (fqName.substring(fqName.lastIndexOf("." + 1, fqName.length()));
}

private String getPackageName(Class<? super clazz> clazz) {
    return clazz.getPackage().getName();
}

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 */
package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.api.records.SerializedException;
import org.apache.hadoop.yarn.api.records.impl.pb.ContainerIdPBImpl;
import org.apache.hadoop.yarn.api.records.impl.pb.SerializedExceptionPBImpl;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.SerializedExceptionProto;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class StopContainersResponsePBImpl extends StopContainersResponse {
    StopContainersResponseProto proto = StopContainersResponseProto.getDefaultInstance();
    StopContainersResponseProto.Builder builder = null;
    boolean viaProto = false;

    private List<ContainerId> succeededRequests = null;
    private Map<ContainerId, SerializedException> failedRequests = null;

    public StopContainersResponsePBImpl() {
        builder = StopContainersResponseProto.newBuilder();
    }

    public StopContainersResponsePBImpl(StopContainersResponseProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public StopContainersResponseProto getProto() {
        mergeLocalToProto();
        return proto;
    }
}
proto = viaProto ? proto : builder.build();
viaProto = true;
return proto;
}

@Override
public int hashCode() {
  return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
  if (other == null)
    return false;
  if (other.getClass().isAssignableFrom(this.getClass())) {
    return this.getProto().equals(this.getClass().cast(other).getProto());
  }
  return false;
}

@Override
public String toString() {
  return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToProto() {
  if (viaProto) {
    maybeInitBuilder();
  }
  mergeLocalToBuilder();
  proto = builder.build();
  viaProto = true;
}

private void maybeInitBuilder() {
  if (viaProto || builder == null) {
    builder = StopContainersResponseProto.newBuilder(proto);
  }
  viaProto = false;
}

private void mergeLocalToBuilder() {
  if (this.succeededRequests != null) {
    addSucceededRequestsToProto();
  }
  if (this.failedRequests != null) {
    addFailedRequestsToProto();
  }
}

private void addSucceededRequestsToProto() {
  // Implementation code
}

private void addFailedRequestsToProto() {
  // Implementation code
}
private void addSucceededRequestsToProto() {
    maybeInitBuilder();
    builder.clearSucceededRequests();
    if (this.succeededRequests == null) {
        return;
    }
    Iterable<ContainerIdProto> iterable = new Iterable<ContainerIdProto>() {
        @Override
        public Iterator<ContainerIdProto> iterator() {
            return new Iterator<ContainerIdProto>() {
                Iterator<ContainerId> iter = succeededRequests.iterator();
                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }
                @Override
                public ContainerIdProto next() {
                    return convertToProtoFormat(iter.next());
                }
                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
    builder.addAllSucceededRequests(iterable);
}

private void addFailedRequestsToProto() {
    maybeInitBuilder();
    builder.clearFailedRequests();
    if (this.failedRequests == null)
        return;
    List<ContainerExceptionMapProto> protoList =
        new ArrayList<ContainerExceptionMapProto>();
    for (Map.Entry<ContainerId, SerializedException> entry : this.failedRequests.entrySet()) {
        protoList.add(ContainerExceptionMapProto.newBuilder().
            setContainerId(entry.getKey()).
            setException(entry.getValue()).build());
    }
    builder.addAllFailedRequests(protoList);
}
.setContainerId(convertToProtoFormat(entry.getKey()))
 .setException(convertToProtoFormat(entry.getValue())).build();
}
builder.addAllFailedRequests(protoList);
}

private void initSucceededRequests() {
 if (this.succeededRequests != null)
 return;
StopContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
List<ContainerIdProto> list = p.getSucceededRequestsList();
this.succeededRequests = new ArrayList<ContainerId>();
for (ContainerIdProto c : list) {
 this.succeededRequests.add(convertFromProtoFormat(c));
}
}

private void initFailedRequests() {
 if (this.failedRequests != null) {
 return;
 }
StopContainersResponseProtoOrBuilder p = viaProto ? proto : builder;
List<ContainerExceptionMapProto> protoList = p.getFailedRequestsList();
this.failedRequests = new HashMap<ContainerId, SerializedException>();
for (ContainerExceptionMapProto ce : protoList) {
 this.failedRequests.put(convertFromProtoFormat(ce.getContainerId()),
 convertFromProtoFormat(ce.getException()));
}

@Override
public List<ContainerId> getSuccessfullyStoppedContainers() {
 initSucceededRequests();
 return this.succeededRequests;
}

@Override
public void setSuccessfullyStoppedContainers(List<ContainerId> succeededRequests) {
 maybeInitBuilder();
 if (succeededRequests == null) {
 builder.clearSucceededRequests();
 }
 this.succeededRequests = succeededRequests;
}

@Override
public Map<ContainerId, SerializedException> getFailedRequests() {
 initFailedRequests();
}
return this.failedRequests;
}

@Override
public void setFailedRequests(
    Map<ContainerId, SerializedException> failedRequests) {
    maybeInitBuilder();
    if (failedRequests == null)
        builder.clearFailedRequests();
    this.failedRequests = failedRequests;
}

private ContainerIdPBImpl convertFromProtoFormat(ContainerIdProto p) {
    return new ContainerIdPBImpl(p);
}

private ContainerIdProto convertToProtoFormat(ContainerId t) {
    return ((ContainerIdPBImpl) t).getProto();
}

private SerializedExceptionPBImpl convertFromProtoFormat(
    SerializedExceptionProto p) {
    return new SerializedExceptionPBImpl(p);
}

private SerializedExceptionProto convertToProtoFormat(SerializedException t) {
    return ((SerializedExceptionPBImpl) t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationRequest;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetNewApplicationRequestPBImpl extends GetNewApplicationRequest {
    GetNewApplicationRequestProto proto = GetNewApplicationRequestProto.getDefaultInstance();
    GetNewApplicationRequestProto.Builder builder = null;
    boolean viaProto = false;

    public GetNewApplicationRequestPBImpl() {
        builder = GetNewApplicationRequestProto.newBuilder();
    }

    public GetNewApplicationRequestPBImpl(GetNewApplicationRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public GetNewApplicationRequestProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {

    }

    public GetNewApplicationRequestPBImpl() {
    }

    public GetNewApplicationRequestPBImpl(GetNewApplicationRequestProto proto) {
    }

    public GetNewApplicationRequestProto getProto() {
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {

    }
return TextFormat.shortDebugString(getProto());
}
}
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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class GetDelegationTokenResponsePBImpl extends GetDelegationTokenResponse {

Token appToken;

GetDelegationTokenResponseProto proto =
    GetDelegationTokenResponseProto.getDefaultInstance();
GetDelegationTokenResponseProto.Builder builder = null;
boolean viaProto = false;

public GetDelegationTokenResponsePBImpl() {
    builder = GetDelegationTokenResponseProto.newBuilder();
}
public GetDelegationTokenResponsePBImpl (GetDelegationTokenResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

@Override
public Token getRMDelegationToken() {
    GetDelegationTokenResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.appToken != null) {
        return this.appToken;
    }
    if (!p.hasToken()) {
        return null;
    }
    this.appToken = convertFromProtoFormat(p.getToken());
    return this.appToken;
}

@Override
public void setRMDelegationToken(Token appToken) {
    maybeInitBuilder();
    if (appToken == null)
        builder.clearToken();
    this.appToken = appToken;
}

public GetDelegationTokenResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}
return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (appToken != null) {
        builder.setToken(convertToProtoFormat(this.appToken));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = GetDelegationTokenResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

private TokenPBImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBImpl)t).getProto();
}

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Open Source Used In Secure Workload 3.6.1.1 32721
package org.apache.hadoop.yarn.api.impl.pb.client;

import java.io.Closeable;
import java.io.IOException;
import java.net.InetSocketAddress;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.net.NetUtils;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesRequest;
import org.apache.hadoop.yarn.api.protocolrecords.GetContainerStatusesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StopContainersResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetContainerStatusesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StartContainersResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.StopContainersResponsePBImpl;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.ipc.RPCUtil;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.StopContainersRequestProto;

import com.google.protobuf.ServiceException;

@Private
public class ContainerManagementProtocolPBClientImpl implements ContainerManagementProtocol, Closeable {
    // Not a documented config. Only used for tests
static final String NM_COMMAND_TIMEOUT = YarnConfiguration.YARN_PREFIX + "rpc.nm-command-timeout";

/**
 * Maximum of 1 minute timeout for a Node to react to the command
 */
static final int DEFAULT_COMMAND_TIMEOUT = 60000;

private ContainerManagementProtocolPB proxy;

public ContainerManagementProtocolPBClientImpl(long clientVersion,
InetSocketAddress addr, Configuration conf) throws IOException {
RPC.setProtocolEngine(conf, ContainerManagementProtocolPB.class,
ProtobufRpcEngine.class);
UserGroupInformation ugi = UserGroupInformation.getCurrentUser();

int expireIntvl = conf.getInt(NM_COMMAND_TIMEOUT, DEFAULT_COMMAND_TIMEOUT);
proxy =
(ContainerManagementProtocolPB) RPC.getProxy(ContainerManagementProtocolPB.class,
clientVersion, addr, ugi, conf,
NetUtils.getDefaultSocketFactory(conf), expireIntvl);
}

@Override
public void close() {
if (this.proxy != null) {
RPC.stopProxy(this.proxy);
}
}

@Override
public StartContainersResponse
startContainers(StartContainersRequest requests) throws YarnException,
IOException {
StartContainersRequestProto requestProto =
((StartContainersRequestPBImpl) requests).getProto();
try {
return new StartContainersResponsePBImpl(proxy.startContainers(null,
requestProto));
} catch (ServiceException e) {
RPCUtil.unwrapAndThrowException(e);
return null;
}
}

@Override
public StopContainersResponse
stopContainers(StopContainersRequest requests)
throws YarnException, IOException {

StopContainersRequestProto requestProto =
   ((StopContainersRequestPBImpl) requests).getProto();
try {
   return new StopContainersResponsePBImpl(proxy.stopContainers(null,
       requestProto));
} catch (ServiceException e) {
   RPCUtil.unwrapAndThrowException(e);
   return null;
}
}

@Override
public GetContainerStatusesResponse getContainerStatuses(
   GetContainerStatusesRequest request) throws YarnException, IOException {
   GetContainerStatusesRequestProto requestProto =
      ((GetContainerStatusesRequestPBImpl) request).getProto();
try {
   return new GetContainerStatusesResponsePBImpl(proxy.getContainerStatuses(
       null, requestProto));
} catch (ServiceException e) {
   RPCUtil.unwrapAndThrowException(e);
   return null;
}
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.RegisterApplicationMasterRequest;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.RegisterApplicationMasterRequestProto;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.RegisterApplicationMasterRequestProtoOrBuilder;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class RegisterApplicationMasterRequestPBImpl extends RegisterApplicationMasterRequest {
    RegisterApplicationMasterRequestProto proto = RegisterApplicationMasterRequestProto.getDefaultInstance();
    RegisterApplicationMasterRequestProto.Builder builder = null;
    boolean viaProto = false;

    public RegisterApplicationMasterRequestPBImpl() {
        builder = RegisterApplicationMasterRequestProto.newBuilder();
    }

    public RegisterApplicationMasterRequestPBImpl(RegisterApplicationMasterRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public RegisterApplicationMasterRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    @Override
    public String toString() {
        return TextFormat.shortDebugString(getProto());
    }
}
private void mergeLocalToBuilder() {
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = RegisterApplicationMasterRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public String getHost() {
    RegisterApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getHost();
}

@Override
public void setHost(String host) {
    maybeInitBuilder();
    if (host == null) {
        builder.clearHost();
        return;
    }
    builder.setHost(host);
}

@Override
public int getRpcPort() {
    RegisterApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getRpcPort();
}

@Override
public void setRpcPort(int port) {
    maybeInitBuilder();
    builder.setRpcPort(port);
}

@Override
public String getTrackingUrl() {
    RegisterApplicationMasterRequestProtoOrBuilder p = viaProto ? proto : builder;
    return p.getTrackingUrl();
}

@Override
public void setTrackingUrl(String url) {
    maybeInitBuilder();
    if (url == null) {
        builder.clearTrackingUrl();
        return;
    }
    builder.setTrackingUrl(url);
}

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 */

package org.apache.hadoop.yarn.logaggregation;

import java.io.DataInput;
import java.io.DataInputStream;
import java.io.DataOutput;
import java.io.DataOutputStream;
import java.io.EOFException;
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.PrintStream;
import java.io.Writer;
import java.security.PrivilegedExceptionAction;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.EnumSet;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import org.apache.commons.io.input.BoundedInputStream;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CreateFlag;
import org.apache.hadoop.fs.FSDataInputStream;
import org.apache.hadoop.fs.FSDataOutputStream;
import org.apache.hadoop.fs.FileContext;
import org.apache.hadoop.fs.Options;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.fs.permission.FsPermission;
import org.apache.hadoop.io.SecureIOUtils;
import org.apache.hadoop.io.file.tfile.TFile;
import org.apache.hadoop.security.UserGroupInformation;
import org.apache.hadoop.yarn.api.records.ApplicationAccessType;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.conf.YarnConfiguration;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.util.ConverterUtils;

@Public
@Evolving
public class AggregatedLogFormat {

    private static final Log LOG = LogFactory.getLog(AggregatedLogFormat.class);
    private static final LogKey APPLICATION_ACL_KEY = new LogKey("APPLICATION_ACL");
    private static final LogKey APPLICATION_OWNER_KEY = new LogKey("APPLICATION_OWNER");
    private static final LogKey VERSION_KEY = new LogKey("VERSION");
    private static final Map<String, LogKey> RESERVED_KEYS;
    //Maybe write out the retention policy.
    //Maybe write out a list of containerLogs skipped by the retention policy.
    private static final int VERSION = 1;

    /**
     * Umask for the log file.
     */

private static final FsPermission APP_LOG_FILE_UMASK = FsPermission
    .createImmutable((short) (0640 ^ 0777));

static {
    RESERVED_KEYS = new HashMap<String, AggregatedLogFormat.LogKey>() {
        RESERVED_KEYS.put(APPLICATION_ACL_KEY.toString(), APPLICATION_ACL_KEY);
        RESERVED_KEYS.put(APPLICATION_OWNER_KEY.toString(), APPLICATION_OWNER_KEY);
        RESERVED_KEYS.put(VERSION_KEY.toString(), VERSION_KEY);
    }

    @Public
    public static class LogKey implements Writable {

        private String keyString;

        public LogKey() {
        }

        public LogKey(ContainerId containerId) {
            this.keyString = containerId.toString();
        }

        public LogKey(String keyString) {
            this.keyString = keyString;
        }

        @Override
        public int hashCode() {
            return keyString == null ? 0 : keyString.hashCode();
        }

        @Override
        public boolean equals(Object obj) {
            if (obj instanceof LogKey) {
                LogKey other = (LogKey) obj;
                if (this.keyString == null) {
                    return other.keyString == null;
                }
                return this.keyString.equals(other.keyString);
            }
            return false;
        }

        @Private
        @Override
        public void write(DataOutput out) throws IOException {

    


out.writeUTF(this.keyString);
}

@Private
@Override
public void readFields(DataInput in) throws IOException {
    this.keyString = in.readUTF();
}

@Override
public String toString() {
    return this.keyString;
}

@Private
public static class LogValue {

    private final List<String> rootLogDirs;
    private final ContainerId containerId;
    private final String user;
    // TODO Maybe add a version string here. Instead of changing the version of
    // the entire k-v format

    public LogValue(List<String> rootLogDirs, ContainerId containerId,
            String user) {
        this.rootLogDirs = new ArrayList<String>(rootLogDirs);
        this.containerId = containerId;
        this.user = user;

        // Ensure logs are processed in lexical order
        Collections.sort(this.rootLogDirs);
    }

    public void write(DataOutputStream out) throws IOException {
        for (String rootLogDir : this.rootLogDirs) {
            File appLogDir =
                    new File(rootLogDir,
                            ConverterUtils.toString(
                                    this.containerId.getApplicationAttemptId().
                                            getApplicationId()));
            File containerLogDir =
                    new File(appLogDir, ConverterUtils.toString(this.containerId));

            if (!containerLogDir.isDirectory()) {
                continue; // ContainerDir may have been deleted by the user.
            }
        }
    }
}
// Write out log files in lexical order
File[] logFiles = containerLogDir.listFiles();
Arrays.sort(logFiles);
for (File logFile : logFiles) {

  // Write the logFile Type
  out.writeUTF(logFile.getName());

  // Write the log length as UTF so that it is printable
  out.writeUTF(String.valueOf(logFile.length()));

  // Write the log itself
  FileInputStream in = null;
  try {
    in = SecureIOUtils.openForRead(logFile, getUser(), null);
    byte[] buf = new byte[65535];
    int len = 0;
    while ((len = in.read(buf)) != -1) {
      out.write(buf, 0, len);
    }
  } catch (IOException e) {
    String message = "Error aggregating log file. Log file : " + logFile.getAbsolutePath() + e.getMessage();
    LOG.error(message, e);
    out.write(message.getBytes());
  } finally {
    if (in != null) {
      in.close();
    }
  }
}

// Added for testing purpose.
public String getUser() {
  return user;
}

/**
 * The writer that writes out the aggregated logs.
 */
@Private
public static class LogWriter {

  private final FSDataOutputStream fsDataOStream;

  public LogWriter(FSDataOutputStream fsDataOStream) {
    this.fsDataOStream = fsDataOStream;
  }

  public void writeLog(String logFile, long logLength) throws IOException {
    // Write the logFile Type
    out.writeUTF(logFile);

    // Write the log length as UTF so that it is printable
    out.writeUTF(String.valueOf(logLength));

    // Write the log itself
    FileInputStream in = null;
    try {
      in = SecureIOUtils.openForRead(logFile, getUser(), null);
      byte[] buf = new byte[65535];
      int len = 0;
      while ((len = in.read(buf)) != -1) {
        out.write(buf, 0, len);
      }
    } catch (IOException e) {
      String message = "Error aggregating log file. Log file : " + logFile.getAbsolutePath() + e.getMessage();
      LOG.error(message, e);
      out.write(message.getBytes());
    } finally {
      if (in != null) {
        in.close();
      }
    }
  }

  // Other methods...
}
private final TFile.Writer writer;

public LogWriter(final Configuration conf, final Path remoteAppLogFile, UserGroupInformation userUgi) throws IOException {
    try {
        this.fsDataOStream = userUgi.doAs(new PrivilegedExceptionAction<FSDataOutputStream>() {
            @Override
            public FSDataOutputStream run() throws Exception {
                FileContext fc = FileContext.getFileContext(conf);
                fc.setUMask(APP_LOG_FILE_UMASK);
                return fc.create(
                    remoteAppLogFile,
                    EnumSet.of(CreateFlag.CREATE, CreateFlag.OVERWRITE),
                    new Options.CreateOpts[] {});
            }
        });
    } catch (InterruptedException e) {
        throw new IOException(e);
    }

    // Keys are not sorted: null arg
    // 256KB minBlockSize : Expected log size for each container too
    this.writer = new TFile.Writer(this.fsDataOStream, 256 * 1024, conf.get(
        YarnConfiguration.NM_LOG_AGG_COMPRESSION_TYPE,
        YarnConfiguration.DEFAULT_NM_LOG_AGG_COMPRESSION_TYPE), null, conf);

    //Write the version string
    writeVersion();
}

private void writeVersion() throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    VERSION_KEY.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    out.writeInt(VERSION);
    out.close();
}

public void writeApplicationOwner(String user) throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    APPLICATION_OWNER_KEY.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    out.writeUTF(user);
    out.close();
}
public void writeApplicationACLs(Map<ApplicationAccessType, String> appAcls) throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    APPLICATION_ACL_KEY.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    for (Entry<ApplicationAccessType, String> entry : appAcls.entrySet()) {
        out.writeUTF(entry.getKey().toString());
        out.writeUTF(entry.getValue());
    }
    out.close();
}

public void append(LogKey logKey, LogValue logValue) throws IOException {
    DataOutputStream out = this.writer.prepareAppendKey(-1);
    logKey.write(out);
    out.close();
    out = this.writer.prepareAppendValue(-1);
    logValue.write(out);
    out.close();
}

public void closeWriter() {
    try {
        this.writer.close();
    } catch (IOException e) {
        LOG.warn("Exception closing writer", e);
    }
    try {
        this.fsDataOStream.close();
    } catch (IOException e) {
        LOG.warn("Exception closing output-stream", e);
    }
}

@Public
@Evolving
public static class LogReader {

    private final FSDataInputStream fsDataIStream;
    private final TFile.Reader.Scanner scanner;
    private final TFile.Reader reader;

    public LogReader(Configuration conf, Path remoteAppLogFile) throws IOException {
        FileContext fileContext = FileContext.getFileContext(conf);
    }
}
this.fsDataIStream = fileContext.open(remoteAppLogFile);
reader =
    new TFile.Reader(this.fsDataIStream, fileContext.getFileStatus(
        remoteAppLogFile).getLen(), conf);
this.scanner = reader.createScanner();
}

private boolean atBeginning = true;

/**
 * Returns the owner of the application.
 * @return the application owner.
 * @throws IOException
 */
public String getApplicationOwner() throws IOException {
    TFile.Reader.Scanner ownerScanner = reader.createScanner();
    LogKey key = new LogKey();
    while (!ownerScanner.atEnd()) {
        TFile.Reader.Scanner.Entry entry = ownerScanner.entry();
        key.readFields(entry.getKeyStream());
        if (key.toString().equals(APPLICATION_OWNER_KEY.toString())) {
            DataInputStream valueStream = entry.getValueStream();
            return valueStream.readUTF();
        }
    }
    ownerScanner.advance();
    return null;
}

/**
 * Returns ACLs for the application. An empty map is returned if no ACLs are
 * found.
 * @return a map of the Application ACLs.
 * @throws IOException
 */
public Map<ApplicationAccessType, String> getApplicationAcls() 
    throws IOException {
    // TODO Seek directly to the key once a comparator is specified.
    TFile.Reader.Scanner aclScanner = reader.createScanner();
    LogKey key = new LogKey();
    Map<ApplicationAccessType, String> acls =
        new HashMap<ApplicationAccessType, String>();
    while (!aclScanner.atEnd()) {
        TFile.Reader.Scanner.Entry entry = aclScanner.entry();
        key.readFields(entry.getKeyStream());
        if (key.toString().equals(APPLICATION_ACL_KEY.toString())) {
            return aclScanner.advance();
        }
    }
    return null;
}
DataInputStream valueStream = entry.getValueStream();
while (true) {
    String appAccessOp = null;
    String aclString = null;
    try {
        appAccessOp = valueStream.readUTF();
    } catch (EOFException e) {
        // Valid end of stream.
        break;
    }
    try {
        aclString = valueStream.readUTF();
    } catch (EOFException e) {
        throw new YarnRuntimeException("Error reading ACLs", e);
    }
    acls.put(ApplicationAccessType.valueOf(appAccessOp), aclString);
}

return acls;

/**
 * Read the next key and return the value-stream.
 * @param key
 * @return the valueStream if there are more keys or null otherwise.
 * @throws IOException
 */
public DataInputStream next(LogKey key) throws IOException {
    if (!this.atBeginning) {
        this.scanner.advance();
    } else {
        this.atBeginning = false;
    }
    if (this.scanner.atEnd()) {
        return null;
    }
    TFile.Reader.Scanner.Entry entry = this.scanner.entry();
    key.readFields(entry.getKeyStream());
    // Skip META keys
    if (RESERVED_KEYS.containsKey(key.toString())) {
        return next(key);
    }
    DataInputStream valueStream = entry.getValueStream();
    return valueStream;
public ContainerLogsReader getContainerLogsReader(ContainerId containerId) throws IOException {
    ContainerLogsReader logReader = null;
    final LogKey containerKey = new LogKey(containerId);
    LogKey key = new LogKey();
    DataInputStream valueStream = next(key);
    while (valueStream != null && !key.equals(containerKey)) {
        valueStream = next(key);
    }
    if (valueStream != null) {
        logReader = new ContainerLogsReader(valueStream);
    }
    return logReader;
}

//TODO  Change Log format and interfaces to be containerId specific.  
// Avoid returning completeValueStreams. 
public List<String> getTypesForContainer(DataInputStream valueStream) {} 

//
// **
// * @param valueStream
// * The Log stream for the container.
// * @param fileType
// * the log type required.
// * @return An InputStreamReader for the required log type or null if the
// * type is not found.
// * @throws IOException
// */
// public InputStreamReader getLogStreamForType(DataInputStream valueStream, 
// String fileType) throws IOException {
//    valueStream.reset();
//    try {
//        while (true) {

// String ft = valueStream.readUTF();
// String fileLengthStr = valueStream.readUTF();
// long fileLength = Long.parseLong(fileLengthStr);
// if (ft.equals(fileType)) {
//   BoundedInputStream bis =
//     new BoundedInputStream(valueStream, fileLength);
//   return new InputStreamReader(bis);
// } else {
//   long totalSkipped = 0;
//   long currSkipped = 0;
//   while (currSkipped != -1 && totalSkipped < fileLength) {
//     currSkipped = valueStream.skip(fileLength - totalSkipped);
//     totalSkipped += currSkipped;
//   }
//   // TODO Verify skip behaviour.
//   if (currSkipped == -1) {
//     return null;
//   }
// }
// }

/**
 * Writes all logs for a single container to the provided writer.
 * @param valueStream
 * @param writer
 * @throws IOException
 */
public static void readAcontainerLogs(DataInputStream valueStream,
   Writer writer) throws IOException {
  int bufferSize = 65536;
  char[] cbuf = new char[bufferSize];
  String fileType;
  String fileLengthStr;
  long fileLength;

  while (true) {
    try {
      fileType = valueStream.readUTF();
    } catch (EOFException e) {
      // EndOfFile
      return;
    }
    fileLengthStr = valueStream.readUTF();
    fileLength = Long.parseLong(fileLengthStr);
  }
}
writer.write("\n\nLogType:");
writer.write(fileType);
writer.write("\nLogLength:");
writer.write(fileLengthStr);
writer.write("\nLog Contents:\n");

// ByteLevel
BoundedInputStream bis =
   new BoundedInputStream(valueStream, fileLength);
InputStreamReader reader = new InputStreamReader(bis);
int currentRead = 0;
int totalRead = 0;
while ((currentRead = reader.read(cbuf, 0, bufferSize)) != -1) {
   writer.write(cbuf, 0, currentRead);
   totalRead += currentRead;
}

/**
 * Keep calling this till you get a {@link EOFException} for getting logs of
 * all types for a single container.
 *
 * @param valueStream
 * @param out
 * @throws IOException
 */
public static void readACContainerLogsForALogType(
   DataInputStream valueStream, PrintStream out)
   throws IOException {
   byte[] buf = new byte[65535];

   String fileType = valueStream.readUTF();
   String fileLengthStr = valueStream.readUTF();
   long fileLength = Long.parseLong(fileLengthStr);
   out.println("LogType: ");
   out.println(fileType);
   out.println("LogLength: ");
   out.println(fileLengthStr);
   out.println("Log Contents:");
   
   int curRead = 0;
   long pendingRead = fileLength - curRead;
   int toRead =
      pendingRead > buf.length ? buf.length : (int) pendingRead;
   int len = valueStream.read(buf, 0, toRead);
   while (len != -1 && curRead < fileLength) {
      out.write(buf, 0, len);
curRead += len;

pendingRead = fileLength - curRead;
toRead =
    pendingRead > buf.length ? buf.length : (int) pendingRead;
len = valueStream.read(buf, 0, toRead);
}
out.println("");
}

public void close() throws IOException {
    this.scanner.close();
    this.fsDataIStream.close();
}
}

@Private
public static class ContainerLogsReader {
    private DataInputStream valueStream;
    private String currentLogType = null;
    private long currentLogLength = 0;
    private BoundedInputStream currentLogData = null;
    private InputStreamReader currentLogISR;

    public ContainerLogsReader(DataInputStream stream) {
        valueStream = stream;
    }

    public String nextLog() throws IOException {
        if (currentLogData != null && currentLogLength > 0) {
            // seek to the end of the current log, relying on BoundedInputStream
            // to prevent seeking past the end of the current log
            do {
                if (currentLogData.skip(currentLogLength) < 0) {
                    break;
                }
            } while (currentLogData.read() != -1);

            currentLogType = null;
            currentLogLength = 0;
            currentLogData = null;
            currentLogISR = null;
            try {
                String logType = valueStream.readUTF();
                String logLengthStr = valueStream.readUTF();
                currentLogLength = Long.parseLong(logLengthStr);
            }
        }

        return null;
    }
}

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currentLogData =
    new BoundedInputStream(valueStream, currentLogLength);
currentLogData.setPropagateClose(false);
currentLogISR = new InputStreamReader(currentLogData);
currentLogType = logType;
} catch (EOFException e) {
}

return currentLogType;
}

public String getCurrentLogType() {
    return currentLogType;
}

public long getCurrentLogLength() {
    return currentLogLength;
}

public long skip(long n) throws IOException {
    return currentLogData.skip(n);
}

public int read(byte[] buf, int off, int len) throws IOException {
    return currentLogData.read(buf, off, len);
}

public int read(char[] buf, int off, int len) throws IOException {
    return currentLogISR.read(buf, off, len);
}

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 */
package org.apache.hadoop.yarn.api.impl.pb.service;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.hadoop.yarn.api.ApplicationClientProtocolPB;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetApplicationsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterMetricsResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetClusterNodesResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetNewApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.GetQueueUserAclsInfoResponse;
import org.apache.hadoop.yarn.api.protocolrecords.KillApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.RenewDelegationTokenResponse;
import org.apache.hadoop.yarn.api.protocolrecords.SubmitApplicationResponse;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.CancelDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetApplicationReportRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterMetricsResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetClusterNodesResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetNewApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.GetQueueUserAclsInfoResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.KillApplicationResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.RenewDelegationTokenResponsePBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationRequestPBImpl;
import org.apache.hadoop.yarn.api.protocolrecords.impl.pb.SubmitApplicationResponsePBImpl;
import org.apache.hadoop.yarn.exceptions.YarnException;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.SubmitApplicationRequestProto;

import com.google.protobuf.RpcController;
import com.google.protobuf.ServiceException;

@Private
public class ApplicationClientProtocolPBServiceImpl implements ApplicationClientProtocolPB {

  private ApplicationClientProtocol real;

  public ApplicationClientProtocolPBServiceImpl(ApplicationClientProtocol impl) {
      this.real = impl;
  }

  @Override
  public KillApplicationResponseProto forceKillApplication(RpcController arg0,
      KillApplicationRequestProto proto) throws ServiceException {
    KillApplicationRequestPBImpl request = new KillApplicationRequestPBImpl(proto);
    try {
      KillApplicationResponse response = real.forceKillApplication(request);
      return ((KillApplicationResponsePBImpl)response).getProto();
    } catch (YarnException e) {
      throw new ServiceException(e);
    } catch (IOException e) {
      throw new ServiceException(e);
    }
  }
}
@Override
public GetApplicationReportResponseProto getApplicationReport(
    RpcController arg0, GetApplicationReportRequestProto proto)
throws ServiceException {
GetApplicationReportRequestPBImpl request = new GetApplicationReportRequestPBImpl(proto);
try {
    GetApplicationReportResponse response = real.getApplicationReport(request);
    return ((GetApplicationReportResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}
}

@Override
public GetClusterMetricsResponseProto getClusterMetrics(RpcController arg0,
    GetClusterMetricsRequestProto proto) throws ServiceException {
GetClusterMetricsRequestPBImpl request = new GetClusterMetricsRequestPBImpl(proto);
try {
    GetClusterMetricsResponse response = real.getClusterMetrics(request);
    return ((GetClusterMetricsResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}
}

@Override
public GetNewApplicationResponseProto getNewApplication(
    RpcController arg0, GetNewApplicationRequestProto proto)
throws ServiceException {
GetNewApplicationRequestPBImpl request = new GetNewApplicationRequestPBImpl(proto);
try {
    GetNewApplicationResponse response = real.getNewApplication(request);
    return ((GetNewApplicationResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}
}

@Override
public SubmitApplicationResponseProto submitApplication(RpcController arg0,
    SubmitApplicationRequestProto proto) throws ServiceException {

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SubmitApplicationRequestPBImpl request = new SubmitApplicationRequestPBImpl(proto);
try {
    SubmitApplicationResponse response = real.submitApplication(request);
    return ((SubmitApplicationResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@ Override
public GetApplicationsResponseProto getApplications(
    RpcController controller, GetApplicationsRequestProto proto)
throws ServiceException {
    GetApplicationsRequestPBImpl request =
        new GetApplicationsRequestPBImpl(proto);
    try {
        GetApplicationsResponse response = real.getApplications(request);
        return ((GetApplicationsResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@ Override
public GetClusterNodesResponseProto getClusterNodes(RpcController controller,
    GetClusterNodesRequestProto proto) throws ServiceException {
    GetClusterNodesRequestPBImpl request =
        new GetClusterNodesRequestPBImpl(proto);
    try {
        GetClusterNodesResponse response = real.getClusterNodes(request);
        return ((GetClusterNodesResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

@ Override
public GetQueueInfoResponseProto getQueueInfo(RpcController controller,
    GetQueueInfoRequestProto proto) throws ServiceException {
    GetQueueInfoRequestPBImpl request =
        new GetQueueInfoRequestPBImpl(proto);
    try {

GetQueueInfoResponse response = real.getQueueInfo(request);
return ((GetQueueInfoResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public GetQueueUserAclsInfoResponseProto getQueueUserAcls(
    RpcController controller, GetQueueUserAclsInfoRequestProto proto)
    throws ServiceException {
GetQueueUserAclsInfoRequestPBImpl request =
    new GetQueueUserAclsInfoRequestPBImpl(proto);
try {
    GetQueueUserAclsInfoResponse response = real.getQueueUserAcls(request);
    return ((GetQueueUserAclsInfoResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public GetDelegationTokenResponseProto getDelegationToken(
    RpcController controller, GetDelegationTokenRequestProto proto)
    throws ServiceException {
GetDelegationTokenRequestPBImpl request =
    new GetDelegationTokenRequestPBImpl(proto);
try {
    GetDelegationTokenResponse response = real.getDelegationToken(request);
    return ((GetDelegationTokenResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public RenewDelegationTokenResponseProto renewDelegationToken(
    RpcController controller, RenewDelegationTokenRequestProto proto)
    throws ServiceException {
RenewDelegationTokenRequestPBImpl request =
    new RenewDelegationTokenRequestPBImpl(proto);
try {
RenewDelegationTokenResponse response = real.renewDelegationToken(request);
return ((RenewDelegationTokenResponsePBImpl)response).getProto();
} catch (YarnException e) {
    throw new ServiceException(e);
} catch (IOException e) {
    throw new ServiceException(e);
}

@Override
public CancelDelegationTokenResponseProto cancelDelegationToken(
    RpcController controller, CancelDelegationTokenRequestProto proto)
throws ServiceException {
    CancelDelegationTokenRequestPBImpl request =
    new CancelDelegationTokenRequestPBImpl(proto);
    try {
        CancelDelegationTokenResponse response = real.cancelDelegationToken(request);
        return ((CancelDelegationTokenResponsePBImpl)response).getProto();
    } catch (YarnException e) {
        throw new ServiceException(e);
    } catch (IOException e) {
        throw new ServiceException(e);
    }
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import java.util.ArrayList;
import java.util.List;

import java.util.ArrayList;
import java.util.List;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainerRequest;
import org.apache.hadoop.yarn.api.protocolrecords.StartContainersRequest;

public class StartContainersRequestPBImpl extends StartContainersRequest {
    StartContainersRequestProto proto = StartContainersRequestProto
        .getDefaultInstance();
    StartContainersRequestProto.Builder builder = null;
    boolean viaProto = false;

    private List<StartContainerRequest> requests = null;

    public StartContainersRequestPBImpl() {
        builder = StartContainersRequestProto.newBuilder();
    }

    public StartContainersRequestPBImpl(StartContainersRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    public StartContainersRequestProto getProto() {
        mergeLocalToProto();
        proto = viaProto ? proto : builder.build();
        viaProto = true;
        return proto;
    }

    @Override
    public int hashCode() {
        return getProto().hashCode();
    }

    @Override
    public boolean equals(Object other) {
        if (other == null)
            return false;
        if (other.getClass().isAssignableFrom(this.getClass())) {
            return this.getProto().equals(this.getClass().cast(other).getProto());
        }
        return false;
    }

    private void mergeLocalToProto() {
        if (viaProto)
            maybeInitBuilder();
mergeLocalToBuilder();
proto = builder.build();
viaProto = true;
}

private void mergeLocalToBuilder() {
if (requests != null) {
    addLocalRequestsToProto();
}
}

private void maybeInitBuilder() {
if (viaProto || builder == null) {
    builder = StartContainersRequestProto.newBuilder(proto);
}
viaProto = false;
}

private void addLocalRequestsToProto() {
maybeInitBuilder();
builder.clearStartContainerRequest();
List<StartContainerRequestProto> protoList =
    new ArrayList<StartContainerRequestProto>();
for (StartContainerRequest r : this.requests) {
    protoList.add(convertToProtoFormat(r));
}
builder.addAllStartContainerRequest(protoList);
}

private void initLocalRequests() {
StartContainersRequestProtoOrBuilder p = viaProto ? proto : builder;
List<StartContainerRequestProto> requestList =
    p.getStartContainerRequestList();
this.requests = new ArrayList<StartContainerRequest>();
for (StartContainerRequestProto r : requestList) {
    this.requests.add(convertFromProtoFormat(r));
}
}

@Override
public void setStartContainerRequests(List<StartContainerRequest> requests) {
maybeInitBuilder();
if (requests == null) {
    builder.clearStartContainerRequest();
}
this.requests = requests;
}
@Override
public List<StartContainerRequest> getStartContainerRequests() {
    if (this.requests != null) {
        return this.requests;
    }
    initLocalRequests();
    return this.requests;
}

private StartContainerRequestPBImpl convertFromProtoFormat(StartContainerRequestProto p) {
    return new StartContainerRequestPBImpl(p);
}

private StartContainerRequestProto convertToProtoFormat(StartContainerRequest t) {
    return ((StartContainerRequestPBImpl) t).getProto();

}/**
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 */
package org.apache.hadoop.yarn.factories.impl.pb;

import java.io.IOException;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.net.InetSocketAddress;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.ipc.ProtobufRpcEngine;
import org.apache.hadoop.ipc.RPC;
import org.apache.hadoop.security.token.SecretManager;
import org.apache.hadoop.security.token.TokenIdentifier;
import org.apache.hadoop.yarn.exceptions.YarnRuntimeException;
import org.apache.hadoop.yarn.factories.RpcServerFactory;
import com.google.protobuf.BlockingService;

@Private
public class RpcServerFactoryPBImpl implements RpcServerFactory {

    private static final Log LOG = LogFactory.getLog(RpcServerFactoryPBImpl.class);
    private static final String PROTO_GEN_PACKAGE_NAME = "org.apache.hadoop.yarn.proto";
    private static final String PROTO_GEN_CLASS_SUFFIX = "Service";
    private static final String PB_IMPL_PACKAGE_SUFFIX = "impl.pb.service";
    private static final String PB_IMPL_CLASS_SUFFIX = "PBServiceImpl";
    private static final RpcServerFactoryPBImpl self = new RpcServerFactoryPBImpl();

    private Configuration localConf = new Configuration();
    private ConcurrentMap<Class<?>, Constructor<?>> serviceCache = new ConcurrentHashMap<Class<?>, Constructor<?>>();
    private ConcurrentMap<Class<?>, Method> protoCache = new ConcurrentHashMap<Class<?>, Method>();

    public static RpcServerFactoryPBImpl get() {
        return RpcServerFactoryPBImpl.self;
    }

    private RpcServerFactoryPBImpl() {
    }

    public Server getServer(Class<?> protocol, Object instance,
                            InetSocketAddress addr, Configuration conf,
                            SecretManager<? extends TokenIdentifier> secretManager, int numHandlers) {
        return getServer(protocol, instance, addr, conf, secretManager, numHandlers, null);
    }

    @Override
    public Server getServer(Class<?> protocol, Object instance,
                            InetSocketAddress addr, Configuration conf,
                            SecretManager<? extends TokenIdentifier> secretManager, int numHandlers, int null);
SecretManager<? extends TokenIdentifier> secretManager, int numHandlers,
String portRangeConfig) {

Constructor<?> constructor = serviceCache.get(protocol);
if (constructor == null) {
    Class<?> pbServiceImplClazz = null;
    try {
        pbServiceImplClazz = localConf
            .getClassByName(getPbServiceImplClassName(protocol));
    } catch (ClassNotFoundException e) {
        throw new YarnRuntimeException("Failed to load class: \\
            + getPbServiceImplClassName(protocol) + "]", e);
    }
    try {
        constructor = pbServiceImplClazz.getConstructor(protocol);
        constructor.setAccessible(true);
        serviceCache.putIfAbsent(protocol, constructor);
    } catch (NoSuchMethodException e) {
        throw new YarnRuntimeException("Could not find constructor with params: \\
            + Long.TYPE + ", " + InetSocketAddress.class + ", "
            + Configuration.class, e);
    }
}

Object service = null;
try {
    service = constructor.newInstance(instance);
} catch (InvocationTargetException e) {
    throw new YarnRuntimeException(e);
} catch (IllegalAccessException e) {
    throw new YarnRuntimeException(e);
} catch (InstantiationException e) {
    throw new YarnRuntimeException(e);
}

Class<?> pbProtocol = service.getClass().getInterfaces()[0];
Method method = protoCache.get(protocol);
if (method == null) {
    Class<?> protoClazz = null;
    try {
        protoClazz = localConf.getClassByName(getProtoClassName(protocol));
    } catch (ClassNotFoundException e) {
        throw new YarnRuntimeException("Failed to load class: \\
            + getProtoClassName(protocol) + "]", e);
    }
    try {
        method = protoClazz.getMethod("newReflectiveBlockingService",
            pbProtocol.getInterfaces()[0]);
    } catch (NoSuchMethodException e) {
        throw new YarnRuntimeException("Could not find method with params: \\
            + getProtoClassName(protocol) + "]", e);
    }
}

Class<?> pbProtocol = service.getClass().getInterfaces()[0];
Method method = protoCache.get(protocol);
if (method == null) {
    Class<?> protoClazz = null;
    try {
        protoClazz = localConf.getClassByName(getProtoClassName(protocol));
    } catch (ClassNotFoundException e) {
        throw new YarnRuntimeException("Failed to load class: \\
            + getProtoClassName(protocol) + "]", e);
    }
    try {
        method = protoClazz.getMethod("newReflectiveBlockingService",
            pbProtocol.getInterfaces()[0]);
    } catch (NoSuchMethodException e) {
        throw new YarnRuntimeException("Could not find method with params: \\
            + getProtoClassName(protocol) + "]", e);
    }
}
method.setAccessible(true);
protoCache.putIfAbsent(protocol, method);
} catch (NoSuchMethodException e) {
    throw new YarnRuntimeException(e);
}
}

try {
    return createServer(pbProtocol, addr, conf, secretManager, numHandlers,
        (BlockingService)method.invoke(null, service), portRangeConfig);
} catch (InvocationTargetException e) {
    throw new YarnRuntimeException(e);
} catch (IllegalAccessException e) {
    throw new YarnRuntimeException(e);
} catch (IOException e) {
    throw new YarnRuntimeException(e);
}
}

private String getProtoClassName(Class<?> clazz) {
    String srcClassName = getClassName(clazz);
    return PROTO_GEN_PACKAGE_NAME + "." + srcClassName + "$" + srcClassName + 
        PROTO_GEN_CLASS_SUFFIX;
}

private String getPbServiceImplClassName(Class<?> clazz) {
    String srcPackagePart = getPackageName(clazz);
    String srcClassName = getClassName(clazz);
    String destPackagePart = srcPackagePart + "." + PB_IMPL_PACKAGE_SUFFIX;
    String destClassPart = srcClassName + PB_IMPL_CLASS_SUFFIX;
    return destPackagePart + "." + destClassPart;
}

private String getClassName(Class<?> clazz) {
    String fqName = clazz.getName();
    return (fqName.substring(fqName.lastIndexOf("." + 1, fqName.length()));
}

private String getPackageName(Class<?> clazz) {
    return clazz.getPackage().getName();
}

private Server createServer(Class<?> pbProtocol, InetSocketAddress addr, Configuration conf,
    SecretManager<? extends TokenIdentifier> secretManager, int numHandlers,
    BlockingService blockingService, String portRangeConfig) throws IOException {
    RPC.setProtocolEngine(conf, pbProtocol, ProtobufRpcEngine.class);
        setInstance(blockingService).setBindAddress(addr.getHostAddress());
    return server;
}
.setPort(addr.getPort()).setNumHandlers(numHandlers).setVerbose(false)
.setSecretManager(secretManager).setPortRangeConfig(portRangeConfig)
.build();

LOG.info("Adding protocol "+pbProtocol.getCanonicalName()+" to the server");
server.addProtocol(RPC.RpcKind.RPC_PROTOCOL_BUFFER, pbProtocol, blockingService);
return server;
}
}
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 */

package org.apache.hadoop.yarn.api.records.impl.pb;

import java.util.ArrayList;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ResourceBlacklistRequest;

@Private
@Unstable
public class ResourceBlacklistRequestPBImpl extends ResourceBlacklistRequest {

ResourceBlacklistRequestProto proto = null;
ResourceBlacklistRequestProto.Builder builder = null;
boolean viaProto = false;

List<String> blacklistAdditions = null;
List<String> blacklistRemovals = null;
public ResourceBlacklistRequestPBImpl() {
    builder = ResourceBlacklistRequestProto.newBuilder();
}

public ResourceBlacklistRequestPBImpl(ResourceBlacklistRequestProto proto) {
    this.proto = proto;
    viaProto = true;
}

public ResourceBlacklistRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = ResourceBlacklistRequestProto.newBuilder(proto);
    }
    viaProto = false;
}

private void mergeLocalToProto() {
    if (viaProto) {
        maybeInitBuilder();
    }
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void mergeLocalToBuilder() {
    if (this.blacklistAdditions != null) {
        addBlacklistAdditionsToProto();
    }
    if (this.blacklistRemovals != null) {
        addBlacklistRemovalsToProto();
    }
}

private void addBlacklistAdditionsToProto() {
    maybeInitBuilder();
    builder.clearBlacklistAdditions();
    if (this.blacklistAdditions == null) {
        return;
    }
    builder.addAllBlacklistAdditions(this.blacklistAdditions);
}

private void addBlacklistRemovalsToProto() {
    maybeInitBuilder();
    builder.clearBlacklistRemovals();
    if (this.blacklistRemovals == null) {
        return;
    }
    builder.addAllBlacklistRemovals(this.blacklistRemovals);
private void addBlacklistRemovalsToProto() {
    maybeInitBuilder();
    builder.clearBlacklistAdditions();
    if (this.blacklistRemovals == null) {
        return;
    }
    builder.addAllBlacklistRemovals(this.blacklistRemovals);
}

private void initBlacklistAdditions() {
    if (this.blacklistAdditions != null) {
        return;
    }
    ResourceBlacklistRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<String> list = p.getBlacklistAdditionsList();
    this.blacklistAdditions = new ArrayList<String>();
    this.blacklistAdditions.addAll(list);
}

private void initBlacklistRemovals() {
    if (this.blacklistRemovals != null) {
        return;
    }
    ResourceBlacklistRequestProtoOrBuilder p = viaProto ? proto : builder;
    List<String> list = p.getBlacklistRemovalsList();
    this.blacklistRemovals = new ArrayList<String>();
    this.blacklistRemovals.addAll(list);
}

@Override
public List<String> getBlacklistAdditions() {
    initBlacklistAdditions();
    return this.blacklistAdditions;
}

@Override
public void setBlacklistAdditions(List<String> resourceNames) {
    if (resourceNames == null || resourceNames.isEmpty()) {
        if (this.blacklistAdditions != null) {
            this.blacklistAdditions.clear();
        }
        return;
    }
    initBlacklistAdditions();
    this.blacklistAdditions.clear();
    this.blacklistAdditions.addAll(resourceNames);
@Override
public List<String> getBlacklistRemovals() {
    initBlacklistRemovals();
    return this.blacklistRemovals;
}

@Override
public void setBlacklistRemovals(List<String> resourceNames) {
    if (resourceNames == null || resourceNames.isEmpty()) {
        if (this.blacklistRemovals != null) {
            this.blacklistRemovals.clear();
        }
        return;
    }
    initBlacklistRemovals();
    this.blacklistRemovals.clear();
    this.blacklistRemovals.addAll(resourceNames);
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;

import org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import org.apache.hadoop.yarn.api.protocolrecords.CancelDelegationTokenRequest;
import org.apache.hadoop.yarn.api.records.Token;
import org.apache.hadoop.yarn.api.records.impl.pb.TokenPBImpl;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class CancelDelegationTokenRequestPBImpl extends CancelDelegationTokenRequest {

    CancelDelegationTokenRequestProto proto = CancelDelegationTokenRequestProto.getDefaultInstance();
    CancelDelegationTokenRequestProtoOrBuilder builder = null;
    boolean viaProto = false;

    public CancelDelegationTokenRequestPBImpl() {
        builder = CancelDelegationTokenRequestProto.newBuilder();
    }

    public CancelDelegationTokenRequestPBImpl(CancelDelegationTokenRequestProto proto) {
        this.proto = proto;
        viaProto = true;
    }

    Token token;

    @Override
    public Token getDelegationToken() {
        CancelDelegationTokenRequestProtoOrBuilder p = viaProto ? proto : builder;
        if (this.token != null) {
            return this.token;
        }
        this.token = convertFromProtoFormat(p.getToken());
        return this.token;
    }

    @Override
    public void setDelegationToken(Token token) {
        maybeInitBuilder();
        if (token == null)
            builder.clearToken();
        this.token = token;
    }
}
public CancelDelegationTokenRequestProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (token != null) {
        builder.setToken(convertToProtoFormat(this.token));
    }
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = CancelDelegationTokenRequestProto.newBuilder(proto);
    }
    viaProto = false;
}
private TokenPBImpl convertFromProtoFormat(TokenProto p) {
    return new TokenPBImpl(p);
}

private TokenProto convertToProtoFormat(Token t) {
    return ((TokenPBImpl) t).getProto();
}
}

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 */

package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.Resource;
import com.google.protobuf.TextFormat;

@Private
@Unstable
public class ApplicationResourceUsageReportPBImpl
extends ApplicationResourceUsageReport {
    ApplicationResourceUsageReportProtoOrBuilder protoBuilder = proto.newBuilderForType().buildPartial();
    boolean viaProto = false;
}
Resource usedResources;
Resource reservedResources;
Resource neededResources;

public ApplicationResourceUsageReportPBImpl() {
    builder = ApplicationResourceUsageReportProto.newBuilder();
}

public ApplicationResourceUsageReportPBImpl(
    ApplicationResourceUsageReportProto proto) {
    this.proto = proto;
    viaProto = true;
}

public synchronized ApplicationResourceUsageReportProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private void mergeLocalToBuilder() {
    if (this.usedResources != null 
        && !((ResourcePBImpl) this.usedResources).getProto().equals(
            builder.getUsedResources())) {
        builder.setUsedResources(convertToProtoFormat(this.usedResources));
    }
    if (this.reservedResources != null
        && !((ResourcePBImpl) this.reservedResources).getProto().equals(
            builder.getReservedResources())) {
        builder.setReservedResources(convertToProtoFormat(this.reservedResources));
    }
}
&& !((ResourcePBImpl) this.reservedResources).getProto().equals(
    builder.getReservedResources())) {
builder.setReservedResources(
    convertToProtoFormat(this.reservedResources));
}
if (this.neededResources != null
    && !((ResourcePBImpl) this.neededResources).getProto().equals(
    builder.getNeededResources())) {
builder.setNeededResources(convertToProtoFormat(this.neededResources));
}

private void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = ApplicationResourceUsageReportProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized int getNumUsedContainers() {
    return (p.getNumUsedContainers());
}

@Override
public synchronized void setNumUsedContainers(int num_containers) {
    maybeInitBuilder();
    builder.setNumUsedContainers((num_containers));
}

@Override
public synchronized int getNumReservedContainers() {
    return (p.getNumReservedContainers());
}

@Override
public synchronized void setNumReservedContainers(int num_reserved_containers) {
    int num_reserved_containers)

maybeInitBuilder();
builder.setNumReservedContainers((num_reserved_containers));
}

@Override
public synchronized Resource getUsedResources() {
    if (this.usedResources != null) {
        return this.usedResources;
    }
    if (!p.hasUsedResources()) {
        return null;
    }
    this.usedResources = convertFromProtoFormat(p.getUsedResources());
    return this.usedResources;
}

@Override
public synchronized void setUsedResources(Resource resources) {
    maybeInitBuilder();
    if (resources == null)
        builder.clearUsedResources();
    this.usedResources = resources;
}

@Override
public synchronized Resource getReservedResources() {
    if (this.reservedResources != null) {
        return this.reservedResources;
    }
    if (!p.hasReservedResources()) {
        return null;
    }
    this.reservedResources = convertFromProtoFormat(p.getReservedResources());
    return this.reservedResources;
}

@Override
public synchronized void setReservedResources(Resource reserved_resources) {
    maybeInitBuilder();
    if (reserved_resources == null)
        builder.clearReservedResources();
    this.reservedResources = reserved_resources;
}

@Override
public synchronized Resource getNeededResources() {

if (this.neededResources != null) {
    return this.neededResources;
}
if (!p.hasNeededResources()) {
    return null;
}
this.neededResources = convertFromProtoFormat(p.getNeededResources());
return this.neededResources;
}

@Override
public synchronized void setNeededResources(Resource reserved_resources) {
    maybeInitBuilder();
    if (reserved_resources == null)
        builder.clearNeededResources();
    this.neededResources = reserved_resources;
}

private ResourcePBImpl convertFromProtoFormat(ResourceProto p) {
    return new ResourcePBImpl(p);
}

private ResourceProto convertToProtoFormat(Resource t) {
    return ((ResourcePBImpl)t).getProto();
}

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 */

package org.apache.hadoop.yarn.api.protocolrecords.impl.pb;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.protocolrecords.AllocateResponse;
import org.apache.hadoop.yarn.api.records.AMCommand;
import org.apache.hadoop.yarn.api.records.Container;
import org.apache.hadoop.yarn.api.records.ContainerStatus;
import org.apache.hadoop.yarn.api.records.NMToken;
import org.apache.hadoop.yarn.api.records.PreemptionMessage;
import org.apache.hadoop.yarn.api.records.Resource;
import org.apache.hadoop.yarn.proto.YarnServiceProtos.NMTokenProto;

import com.google.protobuf.TextFormat;

@Private
@Unstable
public class AllocateResponsePBImpl extends AllocateResponse {
    AllocateResponseProto proto = AllocateResponseProto.getDefaultInstance();
    AllocateResponseProto.Builder builder = null;
    boolean viaProto = false;

    Resource limit;

    private List<Container> allocatedContainers = null;
    private List<NMToken> nmTokens = null;
    private List<ContainerStatus> completedContainersStatuses = null;
    private List<NodeReport> updatedNodes = null;
    private PreemptionMessage preempt;

public AllocateResponsePBImpl() {
    builder = AllocateResponseProto.newBuilder();
}

public AllocateResponsePBImpl(AllocateResponseProto proto) {
    this.proto = proto;
    viaProto = true;
}

public synchronized AllocateResponseProto getProto() {
    mergeLocalToProto();
    proto = viaProto ? proto : builder.build();
    viaProto = true;
    return proto;
}

@Override
public int hashCode() {
    return getProto().hashCode();
}

@Override
public boolean equals(Object other) {
    if (other == null)
        return false;
    if (other.getClass().isAssignableFrom(this.getClass())) {
        return this.getProto().equals(this.getClass().cast(other).getProto());
    }
    return false;
}

@Override
public String toString() {
    return TextFormat.shortDebugString(getProto());
}

private synchronized void mergeLocalToBuilder() {
    if (this.allocatedContainers != null) {
        builder.clearAllocatedContainers();
        Iterable<ContainerProto> iterable =
            getProtoIterable(this.allocatedContainers);
        builder.addAllAllocatedContainers(iterable);
    }
    if (nmTokens != null) {
        builder.clearNmTokens();
        Iterable<NMTokenProto> iterable = getTokenProtoIterable(nmTokens);
        builder.addAllNmTokens(iterable);
    }
}
if (this.completedContainersStatuses != null) {
    builder.clearCompletedContainerStatuses();
    Iterable<ContainerStatusProto> iterable = 
        getContainerStatusProtoIterable(this.completedContainersStatuses);
    builder.addAllCompletedContainerStatuses(iterable);
}
if (this.updatedNodes != null) {
    builder.clearUpdatedNodes();
    Iterable<NodeReportProto> iterable = 
        getNodeReportProtoIterable(this.updatedNodes);
    builder.addAllUpdatedNodes(iterable);
}
if (this.limit != null) {
    builder.setLimit(convertToProtoFormat(this.limit));
}
if (this.preempt != null) {
    builder.setPreempt(convertToProtoFormat(this.preempt));
}

private synchronized void mergeLocalToProto() {
    if (viaProto)
        maybeInitBuilder();
    mergeLocalToBuilder();
    proto = builder.build();
    viaProto = true;
}

private synchronized void maybeInitBuilder() {
    if (viaProto || builder == null) {
        builder = AllocateResponseProto.newBuilder(proto);
    }
    viaProto = false;
}

@Override
public synchronized AMCommand getAMCommand() {
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasAMCommand()) {
        return null;
    }
    return ProtoUtils.convertFromProtoFormat(p.getAMCommand());
}

@Override
public synchronized void setAMCommand(AMCommand command) {
    maybeInitBuilder();
if (command == null) {
    builder.clearAMCommand();
    return;
}
builder.setAMCommand(ProtoUtils.convertToProtoFormat(command));

@Override
public synchronized int getResponseId() {
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    return (p.getResponseId());
}

@Override
public synchronized void setResponseId(int responseId) {
    maybeInitBuilder();
    builder.setResponseId((responseId));
}

@Override
public synchronized Resource getAvailableResources() {
    if (this.limit != null) {
        return this.limit;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (!p.hasLimit()) {
        return null;
    }
    this.limit = convertFromProtoFormat(p.getLimit());
    return this.limit;
}

@Override
public synchronized void setAvailableResources(Resource limit) {
    maybeInitBuilder();
    if (limit == null)
        builder.clearLimit();
    this.limit = limit;
}

@Override
public synchronized List<NodeReport> getUpdatedNodes() {
    initLocalNewNodeReportList();
    return this.updatedNodes;
}

@Override
public synchronized void setUpdatedNodes(
final List<NodeReport> updatedNodes) {
if (updatedNodes == null) {
    this.updatedNodes.clear();
    return;
}
this.updatedNodes = new ArrayList<NodeReport>(updatedNodes.size());
this.updatedNodes.addAll(updatedNodes);
}

@Override
public synchronized List<Container> getAllocatedContainers() {
    initLocalNewContainerList();
    return this.allocatedContainers;
}

@Override
public synchronized void setAllocatedContainers(final List<Container> containers) {
    if (containers == null)
        return;
    // this looks like a bug because it results in append and not set
    initLocalNewContainerList();
    allocatedContainers.addAll(containers);
}

/// Finished containers
@Override
public synchronized List<ContainerStatus> getCompletedContainersStatuses() {
    initLocalFinishedContainerList();
    return this.completedContainersStatuses;
}

@Override
public synchronized void setCompletedContainersStatuses(final List<ContainerStatus> containers) {
    if (containers == null)
        return;
    initLocalFinishedContainerList();
    completedContainersStatuses.addAll(containers);
}

@Override
public synchronized void setNMTokens(List<NMToken> nmTokens) {
    if (nmTokens == null || nmTokens.isEmpty()) {
        if (this.nmTokens != null) {
            this.nmTokens.clear();
        }
        builder.clearNmTokens();
    }
}
return;

// Implementing it as an append rather than set for consistency
initLocalNewNMTokensList();
this.nmTokens.addAll(nmTokens);
}

@override
public synchronized List<NMToken> getNMTokens() {
    initLocalNewNMTokensList();
    return nmTokens;
}

@override
public synchronized int getNumClusterNodes() {
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    return p.getNumClusterNodes();
}

@override
public synchronized void setNumClusterNodes(int numNodes) {
    maybeInitBuilder();
    builder.setNumClusterNodes(numNodes);
}

@override
public synchronized PreemptionMessage getPreemptionMessage() {
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    if (this.preempt != null) {
        return this.preempt;
    }
    if (!p.hasPreempt()) {
        return null;
    }
    this.preempt = convertFromProtoFormat(p.getPreempt());
    return this.preempt;
}

@override
public synchronized void setPreemptionMessage(PreemptionMessage preempt) {
    maybeInitBuilder();
    if (null == preempt) {
        builder.clearPreempt();
    }
    this.preempt = preempt;
}

// Once this is called. updatedNodes will never be null - until a getProto is
private synchronized void initLocalNewNodeReportList() {
    if (this.updatedNodes != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<NodeReportProto> list = p.getUpdatedNodesList();
    updatedNodes = new ArrayList<NodeReport>(list.size());
    for (NodeReportProto n : list) {
        updatedNodes.add(convertFromProtoFormat(n));
    }
}

private synchronized void initLocalNewContainerList() {
    if (this.allocatedContainers != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerProto> list = p.getAllocatedContainersList();
    allocatedContainers = new ArrayList<Container>();
    for (ContainerProto c : list) {
        allocatedContainers.add(convertFromProtoFormat(c));
    }
}

private synchronized void initLocalNewNMTokenList() {
    if (nmTokens != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<NMTokenProto> list = p.getNmTokensList();
    nmTokens = new ArrayList<NMToken>();
    for (NMTokenProto t : list) {
        nmTokens.add(convertFromProtoFormat(t));
    }
}

private synchronized Iterable<ContainerProto> getProtoIterable(
        final List<Container> newContainersList) {
    maybeInitBuilder();
    return new Iterable<ContainerProto>() {
        @Override
        public synchronized Iterator<ContainerProto> iterator() {
            return new Iterator<ContainerProto>() {
                @Override
                public boolean hasNext() {
                    return false;
                }

                @Override
                public ContainerProto next() {
                    throw new NoSuchElementException();
                }
            };
            return null;
        }
    };
}
Iterator<Container> iter = newContainersList.iterator();

@Override
public synchronized boolean hasNext() {
    return iter.hasNext();
}

@Override
public synchronized ContainerProto next() {
    return convertToProtoFormat(iter.next());
}

@Override
public synchronized void remove() {
    throw new UnsupportedOperationException();
}

private synchronized Iterable<NMTokenProto> getTokenProtoIterable(final List<NMToken> nmTokenList) {
    maybeInitBuilder();
    return new Iterable<NMTokenProto>() {
        @Override
        public synchronized Iterator<NMTokenProto> iterator() {
            return new Iterator<NMTokenProto>() {
                Iterator<NMToken> iter = nmTokenList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public NMTokenProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
}

private synchronized Iterable<NMTokenProto> getTokenProtoIterable( final List<NMToken> nmTokenList) {
    maybeInitBuilder();
    return new Iterable<NMTokenProto>() {
        @Override
        public synchronized Iterator<NMTokenProto> iterator() {
            return new Iterator<NMTokenProto>() {
                Iterator<NMToken> iter = nmTokenList.iterator();

                @Override
                public boolean hasNext() {
                    return iter.hasNext();
                }

                @Override
                public NMTokenProto next() {
                    return convertToProtoFormat(iter.next());
                }

                @Override
                public void remove() {
                    throw new UnsupportedOperationException();
                }
            };
        }
    };
}
private synchronized Iterable<ContainerStatusProto>
getContainerStatusProtoIterable(
    final List<ContainerStatus> newContainersList) {
maybeInitBuilder();
return new Iterable<ContainerStatusProto>() {
    @Override
    public synchronized Iterator<ContainerStatusProto> iterator() {
        return new Iterator<ContainerStatusProto>() {
            Iterator<ContainerStatus> iter = newContainersList.iterator();

            @Override
            public synchronized boolean hasNext() {
                return iter.hasNext();
            }

            @Override
            public synchronized ContainerStatusProto next() {
                return convertToProtoFormat(iter.next());
            }

            @Override
            public synchronized void remove() {
                throw new UnsupportedOperationException();
            }
        };
    }
};

private synchronized Iterable<NodeReportProto>
getNodeReportProtoIterable(
    final List<NodeReport> newNodeReportsList) {
maybeInitBuilder();
return new Iterable<NodeReportProto>() {
    @Override
    public synchronized Iterator<NodeReportProto> iterator() {
        return new Iterator<NodeReportProto>() {
            Iterator<NodeReport> iter = newNodeReportsList.iterator();

            @Override
            public synchronized boolean hasNext() {
                return iter.hasNext();
            }

            @Override
            public synchronized NodeReportProto next() {
                return convertToProtoFormat(iter.next());
            }

            @Override
            public synchronized void remove() {
                throw new UnsupportedOperationException();
            }
        };
    }
};
@Override
public synchronized boolean hasNext() {
    return iter.hasNext();
}

@Override
public synchronized NodeReportProto next() {
    return convertToProtoFormat(iter.next());
}

@Override
public synchronized void remove() {
    throw new UnsupportedOperationException();
}

// Once this is called. containerList will never be null - until a getProto
// is called.
private synchronized void initLocalFinishedContainerList() {
    if (this.completedContainersStatuses != null) {
        return;
    }
    AllocateResponseProtoOrBuilder p = viaProto ? proto : builder;
    List<ContainerStatusProto> list = p.getCompletedContainerStatusesList();
    completedContainersStatuses = new ArrayList<ContainerStatus>();
    for (ContainerStatusProto c : list) {
        completedContainersStatuses.add(convertFromProtoFormat(c));
    }
}

private synchronized NodeReportPBImpl convertFromProtoFormat(
        NodeReportProto p) {
    return new NodeReportPBImpl(p);
}

private synchronized NodeReportProto convertToProtoFormat(NodeReport t) {
    return ((NodeReportPBImpl)t).getProto();
}

private synchronized ContainerPBImpl convertFromProtoFormat(
        ContainerProto p) {
    return new ContainerPBImpl(p);
private synchronized ContainerProto convertToProtoFormat(Container t) {
    return ((ContainerPBImpl)t).getProto();
}

private synchronized ContainerStatusPBImpl convertFromProtoFormat(
    ContainerStatusProto p) {
    return new ContainerStatusPBImpl(p);
}

private synchronized ContainerStatusProto convertToProtoFormat(
    ContainerStatus t) {
    return ((ContainerStatusPBImpl)t).getProto();
}

private synchronized ResourcePBImpl convertFromProtoFormat(ResourceProto p) {
    return new ResourcePBImpl(p);
}

private synchronized ResourceProto convertToProtoFormat(Resource r) {
    return ((ResourcePBImpl)r).getProto();
}

private synchronized PreemptionMessagePBImpl convertFromProtoFormat(PreemptionMessageProto p) {
    return new PreemptionMessagePBImpl(p);
}

private synchronized PreemptionMessageProto convertToProtoFormat(PreemptionMessage r) {
    return ((PreemptionMessagePBImpl)r).getProto();
}

private synchronized NMTokenProto convertToProtoFormat(NMToken token) {
    return ((NMTokenPBImpl)token).getProto();
}

private synchronized NMToken convertFromProtoFormat(NMTokenProto proto) {
    return new NMTokenPBImpl(proto);
}

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 */
package org.apache.hadoop.yarn.api.records.impl.pb;

import org.apache.hadoop.classification.InterfaceAudience.Private;
import org.apache.hadoop.yarn.api.records.ApplicationAttemptId;
import org.apache.hadoop.yarn.api.records.ContainerId;
import org.apache.hadoop.yarn.proto.YarnProtos.ApplicationAttemptIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;
import org.apache.hadoop.yarn.proto.YarnProtos.ContainerIdProto;

import com.google.common.base.Preconditions;

@Private
@Unstable
public class ContainerIdPBImpl extends ContainerId {
    ContainerIdProto proto = null;
    ContainerIdProto.Builder builder = null;
    private ApplicationAttemptId applicationAttemptId = null;

    public ContainerIdPBImpl() {
        builder = ContainerIdProto.newBuilder();
    }

    public ContainerIdPBImpl(ContainerIdProto proto) {
        this.proto = proto;
        this.applicationAttemptId = convertFromProtoFormat(proto.getAppAttemptId());
    }

    public ContainerIdProto getProto() {
        return proto;
    }

    @Override
    public int getId() {
        Preconditions.checkNotNull(proto);
        return proto.getId();
    }

    @Override
    public String toString() {
        return super.toString();
    }

    @Override
    public String toDebugString() {
        return super.toDebugString();
    }
}

Open Source Used In Secure Workload 3.6.1.1 32775
protected void setId(int id) {
    Preconditions.checkNotNull(builder);
    builder.setId(id);
}

@Override
public ApplicationAttemptId getApplicationAttemptId() {
    return this.applicationAttemptId;
}

@Override
protected void setApplicationAttemptId(ApplicationAttemptId atId) {
    if (atId != null) {
        Preconditions.checkNotNull(builder);
        builder.setAppAttemptId(convertToProtoFormat(atId));
    }
    this.applicationAttemptId = atId;
}

private ApplicationAttemptIdPBImpl convertFromProtoFormat(
    ApplicationAttemptIdProto p) {
    return new ApplicationAttemptIdPBImpl(p);
}

private ApplicationAttemptIdProto convertToProtoFormat(
    ApplicationAttemptId t) {
    return ((ApplicationAttemptIdPBImpl)t).getProto();
}

@Override
protected void build() {
    proto = builder.build();
    builder = null;
}

1.2754 python-prettytable 0.7.2-3.el7
1.2754.1 Available under license:

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1.2755 jackson 2.9.10

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.2756 haveged 1.9.13-1.el7

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.2762 libjpeg 6b

1.2762.1 Notifications:
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1.2762.2 Available under license:
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
* .1  Unix-style man pages for programs (same info as usage.doc).
wizard.doc   Advanced usage instructions for JPEG wizards only.
change.log     Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc   How to use the JPEG library in your own programs.
example.c     Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc  Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability:
for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still Images, Part 2: Compliance testing" and has document

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.
In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2763 xmlsec 1.2.20 4.el6
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* Cordys R&D BV

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1.2764 lvm2 1.02.107-5.el7

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1.2771 certifi 2020.12.5
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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1.2773 lua 5.1.4 15.el7

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1.2774 e2fsprogs 1.42.9-19.el7

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# In order to use this stub, the following makefile variables must be defined.

#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`$((my_dir) | sed -e 's;lib/;"$/${BSD_LIB} $({BSD_LIB})')`

install-shlibs install:: ${BSD_LIB}
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- *
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.2781 grpc-protobuf 1.15.1

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    */

    Found in path(s):
    * /opt/ws_local/PERMITS_SQL/1052991202_1592022150.69/0/grpc-protobuf-1-15-1-sources-
      jar/io/grpc/protobuf/ProtoUtils.java

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1052991202_1592022150.69/0/grpc-protobuf-1-15-1-sources-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java
* /opt/ws_local/PERMITS_SQL/1052991202_1592022150.69/0/grpc-protobuf-1-15-1-sources-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java

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* /opt/ws_local/PERMITS_SQL/1052991202_1592022150.69/0/grpc-protobuf-1-15-1-sources-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java
1.2782 tftp-hpa 0.49-8.el6

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 * ----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c

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 * ----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/config.h

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}_%{bindir}
mkdir -p ${RPM_BUILD_ROOT}_%{mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ 
  SBINDIR=%{sbindir} MANDIR=%{mandir} \ 
install
install -m755 -d ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/ $(RPM_BUILD_ROOT)/tftpboot
install -m644 tftp-xinetd $(RPM_BUILD_ROOT)%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}
%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added ".-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.
* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
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* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
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* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec.in
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* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c
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* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.h
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c
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----------------------------------------------------------------------- */

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT} %{_bindir}
mkdir -p ${RPM_BUILD_ROOT} %{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT} %{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ 
SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ 
install
install -m755 -d ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 : 

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 : 
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{bindir}/tftp
%{mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{bindir}/in.tftpd
%{mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)
* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
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  - added check for getpwnam() failure

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  - initial build

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1.2783 aws-iam-authenticator 0.5.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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* Project home: https://projects.eclipse.org/projects/ee4j.jaf

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1.2788 libnfsidmap 0.25 19.el7
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This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on
Fri, 6 Aug 2004 16:10:43 -0400.

The latest version can always be found at
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1.2789 device-mapper-multipath 0.4.9-133.el7
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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1.2791 jersey-container-servlet-core 2.22.2

1.2792 perl-parent 0.225 244.el7

1.2793 kerb-identity 1.0.1

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  * Allowed to skip SSL hostname verification

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* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeaders and associated tests and docs
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* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.
* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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# Contributions to the urllib3 project

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * Non-multipart encoding for POST requests

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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

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* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

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Name: grpcio-tools
Version: 1.3.5
Summary: Protobuf code generator for gRPC
Home-page: http://www.grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: 3-clause BSD
Description: UNKNOWN
Platform: UNKNOWN

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* /opt/cola/permits/1156167000_1619138798.58/0/grpcio-tools-1-3-5-tar-gz/grpcio-tools-1.3.5/grpcio_tools.egg-info/PKG-INFO
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* 
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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No license file was found, but licenses were detected in source scan.

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1.2809 pkg-config 0.23 9.1.el6

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Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.2810 libdrm 2.4.45 2.el6
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1.2811 llvmlite 0.11.0

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1.2812 libxml 2.9.1-6.el7.5

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1.2813 hadoop 2.6.5.0 292

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org.apache.tomcat:tomcat-jsp-api
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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 */

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 */
For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*
   LZ4 - Fast LZ compression algorithm
   Header File
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
| #1: | 32 | 7648 | 0x83 |
| #2: | 7680 | 8704 | 0xa5 |
| #5: | 7936 | 4864 | 0x7 (freebsd) |
| #6: | 12544 | 3584 | 0x7 (freebsd) |

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The complete text of the license is available at the Documentation/licenses/COPYING.BSD-3 file. Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
Device Boot      Start         End      Blocks   Id  System
---------------
__ts_dev__1      2048        4095        1024   83  Linux

Create 2st primary partition
1beb8f38248505d56e4662b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

Device Boot      Start         End      Blocks   Id  System
---------------
__ts_dev__2      4096       20479        8192   a5  FreeBSD

Create default BSD
2e1c3b529eb59c9341afe0443f196a1 bsd.img
Changes will remain in memory only, until you decide to write them. 
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

Changes will remain in memory only, until you decide to write them. 
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them. 
Be careful before using the write command.

Command (m for help):

---layout-------
BSD disklabel command (m for help):

0  unused   5  4.1BSD   9  4.4LFS  d  boot
1  swap   6  Eighth Edition a  unknown e  ADOS
2  Version 6 7  4.2BSD b  HPFS  f  HFS
3  Version 7 8  MS-DOS  c  ISO-9660 10  AdvFS
4  System V

BSD disklabel command (m for help):

1.2818 runit 2.1.2-3.el7.centos
1.2818.1 Available under license :
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Section 6 states terms for distribution of such executables.

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@item
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Petersen (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bde@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users’ freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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* m4/ax_func_which_gethostbyname_r.m4

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1.2827 atk 1.33.6

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Version 2, June 1991

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1.2828 time-out 0.1.0

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Julian Seward, jseward@bzip.org
bzip2/libbz2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = " ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message $copyright_msg";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright \d{4}\/.i
        or die "Copyright statement not found in perl -v output $output";

    $year;
}
1.2830 cni-plugins 0.8.6

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-------------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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org.eclipse.jetty.toolchain:jetty-schemas

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

```
/*

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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Metadata-Version: 1.1
Name: coverage
Version: 3.6b3
Summary: Code coverage measurement for Python
Home-page: http://nedbatchelder.com/code/coverage/3.6b3
Author: Ned Batchelder and others
Author-email: ned@nedbatchelder.com
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Description: Coverage.py measures code coverage, typically during test execution. It uses
the code analysis tools and tracing hooks provided in the Python standard
library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.

Documentation is at `nedbatchelder.com <http://nedbatchelder.com/code/coverage/3.6b3>`_. Code repository
and issue
tracker are at `bitbucket.org <http://bitbucket.org/ned/coveragepy>`_.

New in 3.6: `--fail-under`, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files
can be reported.
New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!

Keywords: code coverage testing
Platform: UNKNOWN
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
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 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */
/**
 * Javascript Diff Algorithm
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 *
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 *
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 * http://ejohn.org/projects/javascript-diff-algorithm/
 *
 * Usage: QUnit.diff(expected, actual)
 *
 * QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown</del> fox <del>jumped</del> <ins>jumps</ins> <ins>over</ins>"
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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.2852 native-system-java 1.1
1.2852.1 Available under license :

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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  </xsl:variable>
</xsl:stylesheet>
PERFORMANCE OF THIS SOFTWARE.
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
<xsl:text>Copyright (C) </xsl:text>
<xsl:call-template name="copyright.years">
<xsl:with-param name="years" select="year"/>
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
</xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->  
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5caff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>''
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.''
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = " ";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b\d\(\d{4}\)\b/s
or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d\(\d{4}\)\b/i
or die "Copyright statement not found in perl -v output '$output'";

$year;
}

1.2874 libjpeg 1.2.90-6.el7

1.2874.1 Available under license:
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/*
 * rdswitch.c
 *
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables fileRead quantization tables from text file
 * -scans fileRead scan script from text file
 * -quality N,[N,...]Set quality ratings
 * -qslots N,[N,...]Set component quantization table selectors
 * -sample HxV,[HxV,...]Set component sampling factors
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-
turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
  /opt/ cola/ permits/ 1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/transupp.h
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; more details.

Found in path(s):
  /opt/ cola/ permits/ 1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jmmxint.asm
  /opt/ cola/ permits/ 1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jimmxint.asm
  /opt/ cola/ permits/ 1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2int.asm
  /opt/ cola/ permits/ 1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
  /opt/ cola/ permits/ 1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 */
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdtrans.c

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/ *
* jinclude.h
* *
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* *
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jinclude.h

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/ *
* jidctflt.c
* *
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* *
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jidctflt.c
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/*
* jdmerge.c
*
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* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
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* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains code for merged upsampling/color conversion.
* *
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* *
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
* 
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmerge.c
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libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
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* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
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This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

/*
*/

/*
*/

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* wrjpgcom.c
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
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* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrjpgcom.c
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/*
 * jdapistd.c
 *
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 *
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdapistd.c
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/*
 * jutils.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jutils.c
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/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdrle.c
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/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
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*
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
  * in the IJG distribution. You may need to modify it if you write a
  * custom memory manager. If system-dependent changes are needed in
  * this file, the best method is to #ifdef them based on a configuration
  * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
  * and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmemsys.h
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USING THE IJG JPEG LIBRARY

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This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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Overview:
Functions provided by the library
Outline of typical usage
Basic library usage:
  Data formats
  Compression details
  Decompression details
You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg. a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.
The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object  
Specify the source of the compressed data (eg, a file)  
Call `jpeg_read_header()` to obtain image info  
Set parameters for decompression  
`jpeg_start_decompress(...)`:  
while (scan lines remain to be read)  
`jpeg_read_scanlines(...)`:  
`jpeg_finish_decompress(...)`:  
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort();` or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.
BASIC LIBRARY USAGE

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Data formats

---------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress
data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

struct jpeg_compress_struct cinfo;
2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
image_height
Height of image, in pixels
input_components
Number of color channels (samples per pixel)
in_color_space
Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See “Special color spaces”, later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don’t need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
  cinfo.image_width = Width; /* image width and height, in pixels */
  cinfo.image_height = Height;
  cinfo.input_components = 3; /* # of color components per pixel */
  cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

  jpeg_set_defaults(&cinfo);
  /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
  jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might
want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines()
one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass
just one or a few scanlines at a time. The expected format for the passed
data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec
contains some weasel wording about how top and bottom are application-defined
terms (a curious interpretation of the English language...) but if you want
your files to be compatible with everyone else's, you WILL use top-to-bottom
order. If the source data must be read in bottom-to-top order, you can use
the JPEG library's virtual array mechanism to invert the data efficiently.
Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far
in the next_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data.
example.c shows the following code for the case of a full-size 2-D source
array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written.
This will normally be equal to the number passed in, so you can usually
ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height,
the additional scanlines are ignored.

* If you use a suspending data destination manager, output buffer overrun
will cause the compressor to return before accepting all the passed lines.
This feature is discussed under "I/O suspension", below. The normal
stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of
next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to
complete the compression cycle. This step is ESSENTIAL to ensure that the
last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG
object.

Typical code:

    jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output
stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code
optimization, jpeg_finish_compress() will perform the additional passes using
data buffered by the first pass. In this case jpeg_finish_compress() may take
quite a while to complete. With the default compression parameters, this will
not happen.

It is an error to call jpeg_finish_compress() before writing the necessary
total number of scanlines. If you wish to abort compression, call
jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object
as discussed next, or you may use it to compress another image. In that case
return to step 2, 3, or 4 as appropriate. If you do not change the
destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written
with the same parameters as before. Note that you can change the input image
dimensions freely between cycles, but if you change the input colorspace, you
should call jpeg_set_defaults() to adjust for the new colorspace; and then
you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling
jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.
This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.
5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines()
one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.
After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).
While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmennobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
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Compression parameter selection
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This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using
only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.
UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[ ] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width
Width and height of image
JDIMENSION image_height
int num_components
Number of color components
J_COLOR_SPACE jpeg_color_space
Colorspace of image
boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version
Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit
Resolution data from JFIF marker
UINT16 X_density
The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored
when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-color map case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.
boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.

JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.

int output_components
Number of color components returned.

int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.
The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jcolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninveted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.
You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings,
Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:

ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes
the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- **init_destination (j_compress_ptr cinfo)**
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- **empty_output_buffer (j_compress_ptr cinfo)**
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- **term_destination (j_compress_ptr cinfo)**
  Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdemarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension

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Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in
the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential.
for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario. This routine is NOT granted the ability to suspend the
decompressor; it can decrement bytes_in_buffer to zero, but no more. If the
requested skip distance exceeds the amount of data currently in the input
buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer.
(Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning
and insert dummy EOI markers just as a non-suspending data source manager
would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;
instead it will backtrack to the start of the marker and reprocess the whole
marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can't
provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn
markers, but these are handled specially: they are either saved into allocated
memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of
buffer overrun is placed on skip_input_data's shoulders, as explained above.
Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.

Multiple-buffer management:
In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable “scan script” defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was
progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT’d data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().
To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (!jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass.

Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output.
If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it’s probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn’t let you inspect the next scan’s parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn’t fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn’t already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.
It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quantFixed color cube colormap  
enable_external_quantExternally-supplied colormap  
enable_2pass_quantTwo-pass custom colormap  
All three are initialized FALSE by jpeg_read_header(). But  
jpeg_start_decompress() automatically sets TRUE the one selected by the  
current two_pass_quantize and colormap settings, so you only need to set the  
enable flags for any other quantization methods you plan to change to later.  

After setting the enable flags correctly at jpeg_start_decompress() time, you  
can change to any enabled quantization method by setting two_pass_quantize  
and colormap properly just before calling jpeg_start_output(). The following  
special rules apply:  
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass  
or 2-pass mode from a different mode, or when you want the 2-pass  
quantizer to be re-run to generate a new colormap.  
2. To switch to an external colormap, or to change to a different external  
colormap than was used on the prior pass, you must call  
jpeg_new_colormap() after setting cinfo.colormap.  
NOTE: if you want to use the same colormap as was used in the prior pass,  
you should not do either of these things. This will save some nontrivial  
switchover costs.  
(These requirements exist because cinfo.colormap will always be non-NULL  
after completing a prior output pass, since both the 1-pass and 2-pass  
quantizers set it to point to their output colormaps. Thus you have to  
do one of these two things to notify the library that something has changed.  
Yup, it’s a bit klugy, but it’s necessary to do it this way for backwards  
compatibility.)  

Note that in buffered-image mode, the library generates any requested colormap  
during jpeg_start_output(), not during jpeg_start_decompress().  

When using two-pass quantization, jpeg_start_output() makes a pass over the  
bUFFERED image to determine the optimum color map; it therefore may take a  
significant amount of time, whereas ordinarily it does little work. The  
progress monitor hook is called during this pass, if defined. It is also  
important to realize that if the specified target scan number is greater than  
or equal to the current input scan number, jpeg_start_output() will attempt  
to consume input as it makes this pass. If you use a suspending data source,  
you need to check for a FALSE return from jpeg_start_output() under these  
conditions. The combination of 2-pass quantization and a not-yet-fully-read  
target scan is the only case in which jpeg_start_output() will consume input.  

Application authors who support buffered-image mode may be tempted to use it  
for all JPEG images, even single-scan ones. This will work, but it is  
inefficient: there is no need to create an image-sized coefficient buffer for  
single-scan images. Requesting buffered-image mode for such an image wastes  
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode
the image. These are the usual kind of JPEG file.

* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.

* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call
jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

    if (cinfo.quant_tbl_ptrs[n] == NULL)
        cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table(j_common_ptr) &cinfo);
    quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
    for (i = 0; i < 64; i++) {
        /* Qtable[] is desired quantization table, in natural array order */
        quant_ptr->quantval[i] = Qtable[i];
Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
for (i = 0; i < 256; i++) {
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

```c
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().
It is possible to read a series of images from a single source file by repeating the `jpeg_read_header()` ... `jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if
the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.
For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

```
jpeg_save_markers(cinfo, marker_code, length_limit)
```

where `marker_code` is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a
If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers();` that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djepg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

**Raw (downsampled) image data**

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.
To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row.
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCTSIZE samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is

cinfo->comp_info[0].h_samp_factor = 2 for Y

cinfo->comp_info[0].v_samp_factor = 2

cinfo->comp_info[1].h_samp_factor = 1 for Cb

cinfo->comp_info[1].v_samp_factor = 1

cinfo->comp_info[2].h_samp_factor = 1 for Cr

cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 “scanlines”. The last DCT block row
of Y data is dummy, so it doesn’t matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing:
you cannot ask for rescaling or color quantization, for instance. More
seriously, you must deal with the color space and sampling factors present in
the incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is
the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a
non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This fandish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in
completed\_passes. Thus the fraction of work completed may be estimated as
\[
\frac{\text{completed\_passes} + (\text{pass\_counter}/\text{pass\_limit})}{\text{total\_passes}}
\]

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass\_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total\_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg\_input\_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total\_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg\_finish\_compress, jpeg\_finish\_decompress, or jpeg\_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is
\[
\text{ptr} = (\text{cinfo}\rightarrow\text{mem}\rightarrow\text{alloc\_small})(\text{(j\_common\_ptr) cinfo, JPOOL\_IMAGE, size});
\]
Use JPOOL\_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc\_large instead of alloc\_small for anything bigger than a few Kbytes.
There are also alloc\_sarray and alloc\_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs.
grayscale), but it doesn't depend on image dimensions.

2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)
At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing
The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of
the popular system include file setups, and some not-so-popular ones too.
See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As
distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will
work fine, although memory may be used inefficiently if char is much larger
than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain
int abound in the code.

char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
  * jpegcolor.c
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
  * This file contains output colorspace conversion routines.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jdctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 * *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 * *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 * *
 * See jidctint.c for additional comments.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdctred.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/ *
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]
; pseudo-registers to make ordering of RGB configurable

%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 */
 */
 */

* wrppm.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* Found in path(s):
*/
*/
*/
*/
*/
*/

libjpeg-turbo note:  This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and
its about time they become a part of history only. They are too small, come from data sources too old and are
available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are
photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects
of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) their respective owners. You are granted full redistribution and publication rights on these
images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If
you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCETEs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2011-2012 D. R. Commander. All Rights Reserved.
 */
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
* 
* - Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90.tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90-tar-gz/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90-tar-gz/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90-tar-gz/libjpeg-turbo-1.2.90/turbojpeg-jni.c

No license file was found, but licenses were detected in source scan.

/*
* jdpostct.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* */
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.

* If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module entirely.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/ *
* jcdctmgr.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient quantization.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/ *
* jccolext.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains input colorspace conversion routines.
TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpeg turbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the “official” distribution packages of libjpeg turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a
directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

; ; jsimdext.inc - common declarations
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
; ; Based on ; x86 SIMD extension for IJG JPEG library - version 1.02
; ; Copyright (C) 1999-2006, MIYASAKA Masaru.
; ; This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.
; ; Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:
; ; 1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
; ; [TAB8]

; ==========================================================================
; System-dependent configurations

%ifdef WIN32
; ----(nasm -fwin32 -DWIN32 ...)-------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
ifdef __YASM_VER__
define SEG_TEXT .text align=16
define SEG_CONST .rdata align=16
else
define SEG_TEXT .text align=16 public use32 class=CODE
define SEG_CONST .rdata align=16 public use32 class=CONST
endif
endif

define EXTN(name) name; foo() -> foo
endif
endif

define WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++
; -- segment definition --
;
define SEG_TEXT .text align=16 public use64 class=CODE
define SEG_CONST .rdata align=16 public use64 class=CONST
endif
endif

define OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)
; -- segment definition --
;
define SEG_TEXT .text align=16 public use32 class=CODE
define SEG_CONST .data align=16 public use32 class=DATA
endif

define ELF; ----(nasm -felf[64] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix
; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits
; -- segment definition --
;
define _x86_64_
define SEG_TEXT .text progbits align=16
define SEG_CONST .rodata progbits align=16
else
define SEG_TEXT .text progbits alloc exec nowrite align=16
define SEG_CONST .rodata progbits alloc noexec nowrite align=16
endif
; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name; foo() -> foo

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)--
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -faoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE_; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text :align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL __MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER qword ; general pointer type
%define SIZEOF_PointER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT  QWORD_BIT  ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER    dword       ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD  ; sizeof(POINTER)
%define POINTER_BIT  DWORD_BIT    ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT         dword       ; signed integer type
%define SIZEOF_INT   SIZEOF_DWORD  ; sizeof(INT)
%define INT_BIT      DWORD_BIT    ; sizeof(INT)*BYTE_BIT

%define FP32        dword       ; IEEE754 single
%define SIZEOF_FP32  SIZEOF_DWORD  ; sizeof(FP32)
%define FP32_BIT     DWORD_BIT    ; sizeof(FP32)*BYTE_BIT

%define MMWORD      qword       ; int64  (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD  ; sizeof(MMWORD)
%define MMWORD_BIT   QWORD_BIT    ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD     ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD  ; sizeof(XMMWORD)
%define XMMWORD_BIT  QWORD_BIT    ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE   1       ; sizeof(BYTE)
%define SIZEOF_WORD   2       ; sizeof(WORD)
%define SIZEOF_DWORD  4       ; sizeof(DWORD)
%define SIZEOF_QWORD  8       ; sizeof(QWORD)
%define SIZEOF_QWORD  16      ; sizeof(OWORD)

%define BYTE_BIT      8       ; CHAR_BIT in C
%define WORD_BIT      16      ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT      32      ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT      64      ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT      128     ; sizeof(OWORD)*BYTE_BIT

; ---------------------------------------------------------------------
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name; foo() -> _foo
%endif
Macros for position-independent code (PIC) support

ifdef GOT_SYMBOL
undef PIC
endif

ifdef PIC

ifidn GOT_SYMBOL, _MACHO_PIC_

At present, nasm doesn't seem to support PIC generation for Mach-O.
The PIC support code below is a little tricky.

SECTION SEG_CONST

const_base:

define GOTOFF(got,sym) (got) + (sym) - const_base

imacro get_GOT_1

NOTE: this macro destroys ecx resister.
call %geteip
addecx, byte (%ref - $)
jmpshort %adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
push ebp
xorebp, ebp; ebp = 0
ifdni %1, ebx; (%1 == ebx)
  db 0x8D, 0x9C + jmp near const_base =
  lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
dbx0x8D,0x9C; 8D,9C
jmpnearly const_base; E9,(const_base-%ref)
%ref:
else; (%1 != ebx)
  db 0x8D, 0x8C + jmp near const_base =
  lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
dbx0x8D,0x8C; 8D,8C
jmpnearly const_base; E9,(const_base-%ref)
%ref:mov %1, ecx
endif; (%1 == ebx)
popebp
endmacro

else; GOT_SYMBOL != _MACHO_PIC_-------------------
%define GOTOFF(got, sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT
extern GOT_SYMBOL
call %geteip
add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmp short %done
%geteip:
mov %1, POINTER [esp]
ret
%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push %1
%endmacro
%imacro poppic1.nolist
pop %1
%endmacro
%imacro movpic2.nolist
mov %1, %2
%endmacro

%else; !PIC ----------------------------------------

%define GOTOFF(got, sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC ----------------------------------------

; ; Align the next instruction on {2,4,8,16...}-byte boundary.
; ; ".align n," in GNU as
; ;
%define MSKLE(x, y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b, n) (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1) & FILLB($,%1)/9 
   db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 
   db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 
   db 0x8D,0xAD,0x00,0x00,0x00,0x00      ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 
   db 0x8D,0x6C,0x25,0x00                ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 
   db 0x8D,0x6D,0x00                     ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 
   db 0x8B,0xED                          ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 
   db 0x90                               ; nop
%endmacro

: Align the next data on {2,4,8,16,...}-byte boundary.
:
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%IFDEF __x86_64__
%IFDEF WIN64
%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps  xmm7, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
movaps  xmm6, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------
/*
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 * Both sequential and progressive modes are supported in this single module.
 *
License: IJG
*/

/*
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */
/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/bmp.h
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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcstest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/bmp.c
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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
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/*
* jquant2.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
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/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cjpeg.c
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IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.
We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a
run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a
problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to
a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the
control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
               |              |
               ------------------ controller ------------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a “strip” buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required.
The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
    |                              |-- Downsampling
Main controller --|
    |                            |-- Forward DCT, quantize
    |-- Coefficient controller --|
    |                            |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each
component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages;
determines handling of nonfatal errors. The surrounding application may override some or all of this object’s methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
   |   |-- Dequantize, Inverse DCT
Main controller --|
   |   |-- Upsampling
   |-- Postprocessing controller --|-- Colorspace conversion
   |   |-- Color quantization
   |   |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller’s primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support
progressive JPEG.) The equivalent of one fully interleaved MCU row of
subsampled data is processed per call, even when the source JPEG file is
noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform
Huffman or arithmetic entropy decoding. Works on one MCU per call.
For progressive JPEG decoding, the coefficient controller supplies the prior
coefficients of each MCU (initially all zeroes), which the entropy decoder
modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients
buffered by the coefficient controller have NOT been dequantized; we
merge dequantization and inverse DCT into a single step for speed reasons.
When scaled-down output is asked for, simplified DCT algorithms may be used
that emit fewer samples per DCT block, not the full 8x8. Works on one DCT
block at a time.

* Postprocessing controller: buffer controller for the color quantization
input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this
controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more
general output rescaling, too. Note that if undersized DCT outputs have
been emitted by the DCT module, this module must adjust so that properly
sized outputs are created.) Works on one row group at a time. This module
also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in
all but the highest-quality operating modes, upsampling and color
conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space,
and change data layout from separate component planes to pixel-interleaved.
Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an
externally specified colormap or an internally generated one. This module
is not used for full-color output. Works on one pixel row at a time; may
require two passes to generate a color map. Note that the output will
always be a single component representing colormap indexes. In the current
design, the output values are JSAMPLEs, so an 8-bit compilation cannot
quantize to more than 256 colors. This is unlikely to be a problem in
practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with
colorspace conversion???
Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* **Master control**: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* **Marker reading**: decodes JPEG markers (except for RSTn).

* **Data source manager**: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* **Memory manager**: same as for compression library.

* **Error handler**: same as for compression library.

* **Progress monitor**: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass...
can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps
simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

\[
\text{GETJSAMPLE(image[colorcomponent][row][col])}
\]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we
recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)
The JPEG marker writer currently does *not* cope with suspension.
We feel that this is not necessary; it is much easier simply to require
the application to ensure there is enough buffer space before starting. (An
empty 2K buffer is more than sufficient for the header markers; and ensuring
there are a dozen or two bytes available before calling jpeg_finish_compress()
will suffice for the trailer.) This would not work for writing multi-scan
JPEG files, but we simply do not intend to support that capability with
suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of
memory, and it manages large "virtual" data arrays on machines where the
operating system does not provide virtual memory. Note that the same
memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or
decompression master record, and they will be released when that master
record is destroyed.

The memory manager does not provide explicit deallocation of objects.
Instead, objects are created in "pools" of free storage, and a whole pool
can be freed at once. This approach helps prevent storage-leak bugs, and
it speeds up operations whenever malloc/free are slow (as they often are).
The pools can be regarded as lifetime identifiers for objects. Two
pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried
across from one datastream to another; this includes all application-visible
parameters. Image lifetime is used for everything else. (A third lifetime,
JPOOL_PASS = one processing pass, was originally planned. However it was
dropped as not being worthwhile. The actual usage patterns are such that the
peak memory usage would be about the same anyway; and having per-pass storage
substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on
   image size. Semantically they behave the same as small objects, but we
distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers,
     small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by
type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown
jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)
jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
jpeg_mem_available estimate available memory
jpeg_open_backing_store create a backing-store object
read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_openBackingStore is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
   This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

   In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

   The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great.
However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient.

Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,
* this code has been modified to output "uncompressed GIF" files.  
* There is no trace of the LZW algorithm in this file.
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPPLUS distribution
* of Feb. 1991.  That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jerror.h

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jccolss2.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90/jquant1.c

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Found in path(s):

No license file was found, but licenses were detected in source scan.

/*
 * jcrepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 */
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/ *
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/ *
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CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
No license file was found, but licenses were detected in source scan.

/*
* jdcolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
* wrrele.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
 *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
 *
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/wrrle.c

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IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

/*
  * jconfig.txt
  *
  * Copyright (C) 1991-1994, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file documents the configuration options that are required to
  * customize the JPEG software for a particular system.
  *
  * The actual configuration options for a particular installation are stored
  * in jconfig.h. On many machines, jconfig.h can be generated automatically
  * or copied from one of the "canned" jconfig files that we supply. But if
  * you need to generate a jconfig.h file by hand, this file tells you how.
  *
  * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
  * EDIT A COPY NAMED JCONFIG.H.
  */

/*
  * These symbols indicate the properties of your machine or compiler.
  * #define the symbol if yes, #undef it if no.
  */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

*/
/* Define "void" as "char" if your compiler doesn't know about type void. */
/* NOTE: be sure to define void such that "void *" represents the most general */
/* pointer type, e.g., that returned by malloc(). */
/*
/* #define void char */
/*

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
/*
/* #define const */
/*

/* Define this if an ordinary "char" type is unsigned. */
/* If you're not sure, leaving it undefined will work at some cost in speed. */
/* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal. */
/*
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
/*
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
/*
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, */
/* but does have a BSD-style <strings.h>. */
/*
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the */
/* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in */
/* <sys/types.h> instead. */
/*
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, */
/* unless you are using a large-data memory model or 80386 flat-memory mode. */
/* On less brain-damaged CPUs this symbol must not be defined. */
/* (Defining this symbol causes large data structures to be referenced through */
/* "far" pointers and to be allocated with a special version of malloc.) */
/*
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less */
/* than the first 15 characters. */
/*
#undef NEED_SHORT_EXTERNAL_NAMES
/* Although a real ANSI C compiler can deal perfectly well with pointers to 
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI 
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, 
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you 
* actually get "missing structure definition" warnings or errors while 
* compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library, 
* but they don't need to be visible to applications using the library. 
* To minimize application namespace pollution, the symbols won't be 
* defined unless JPEG_INTERNALS has been defined. */
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical 
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift, 
* which is the normal and rational definition. */
#undef RIGHT SHIFT IS UNSIGNED

#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper, 
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c). 
* Other applications can ignore these. */
#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** implied warranty.
*/

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* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/rdcolmap.c
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/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jdhuff.h

No license file was found, but licenses were detected in source scan.

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 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

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/*
 * jdmrgext.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
*/

No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/**
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/**
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.
/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/

/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/

/*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
* *
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 *
*/

No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 */
* Note that the IDCT routines are responsible for performing coefficient
dequantization as well as the IDCT proper. This module sets up the
dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jpegcomp.h
 *
* Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
 *
* JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

/*
* jctrans.c
 *
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
* j dct.h
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdct.h
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd_arm.c
 *
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on ARM architecture.

Based on the stubs from 'jsimd_none.c'

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************
libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

======================
Installation Directory
======================

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

======================
Replacing libjpeg at Run Time
======================

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
  real 0m0.392s
  user 0m0.074s
  sys  0m0.020s
[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:SLD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg

real  0m0.109s
user  0m0.029s
sys   0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside
the (hidden) application bundle, so it is not possible to globally replace
libjpeg on OS X systems. Replacing the application's version of the libjpeg
dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into
Open Source Used In Secure Workload 3.6.1.1  34143

the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
```

and

```
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
```

and

```
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of
Colorscape Extensions

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB /* red/green/blue */
- JCS_EXT_RGBX /* red/green/blue/x */
- JCS_EXT_BGR /* blue/green/red */
- JCS_EXT_BGRX /* blue/green/red/x */
- JCS_EXT_XBGR /* x/blue/green/red */
- JCS_EXT_XRGB /* x/red/green/blue */
- JCS_EXT_RGBA /* red/green/blue/alpha */
- JCS_EXT_BGRA /* blue/green/red/alpha */
- JCS_EXT_ABGR /* alpha/blue/green/red */
- JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspace during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#endif JCS_ALPHA_EXTENSIONS
```
jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this
feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can’t already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=================================
In-Memory Source/Destination Managers
=================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don’t, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcestd to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes
the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Unix systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7 until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**     Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.
Performance Pitfalls

Restart Markers

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

Fast Integer Forward DCT at High Quality Levels

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

No license file was found, but licenses were detected in source scan.
turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
  * jsimd_i386.c
  *
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright 2009-2011 D. R. Commander
  *
  * Based on the x86 SIMD extension for IJG JPEG library,
  * Copyright (C) 1999-2006, MIYASAKA Masaru.
  * For conditions of distribution and use, see copyright notice in jsimdext.inc
  *
  * This file contains the interface between the "normal" portions
  * of the library and the SIMD implementations when running on a
  * 32-bit x86 architecture.
  */

Found in path(s):
  * /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
  * rdgif.c
  *
  * Copyright (C) 1991-1997, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to read input images in GIF format.
  *
  * **********************************************************************************************
  * NOTE: to avoid entanglements with Unisys' patent on LZW compression,
  * the ability to read GIF files has been removed from the IJG distribution.
  * Sorry about that.
  * **********************************************************************************************
  *
  * We are required to state that
  * "The Graphics Interchange Format(c) is the Copyright property of
  * CompuServe Incorporated. GIF(sm) is a Service Mark property of
  * CompuServe Incorporated."
  */

Found in path(s):
  * /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdinput.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/jfdctfst.c

No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
to include only information relevant to libjpeg-turbo, to wordsmith certain
sections, and to remove impolitic language that existed in the libjpeg v8
README. It is included only for reference. Please see README-turbo.txt for
information specific to libjpeg-turbo.

The Independent JPEG Group’s JPEG software
============================================

This distribution contains a release of the Independent JPEG Group's free JPEG
software. You are welcome to redistribute this software and to use it for any
purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge’ Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
========================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:
User documentation:
- install.txt: How to configure and install the IJG software.
- usage.txt: Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
- *.1: Unix-style man pages for programs (same info as usage.txt).
- wizard.txt: Advanced usage instructions for JPEG wizards only.

Programmer and internal documentation:
- libjpeg.txt: How to use the JPEG library in your own programs.
- example.c: Sample code for calling the JPEG library.
- structure.txt: Overview of the JPEG library's internal structure.
- coderules.txt: Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djjpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.
Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."
REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at
http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tif/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
=================

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc8d.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)
TO DO

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jcparam.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

%ifarch x86_64
%define __lib lib64
%else
Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#-->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg
%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}
/docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/usr/local/lib/*.la
mkdir -p $RPM_BUILD_ROOT/usr/local/lib
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/local/lib
/run/ldconfig -n $RPM_BUILD_ROOT/usr/local/lib

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.

Open Source Used In Secure Workload 3.6.1.1 34161
/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-release/libjpeg-turbo-1.2.90.tar.gz/libjpeg-turbo-1.2.90/libjpeg-turbo.spec.in

No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeftct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcoeftct.c

No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 */
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.

Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
  *djep [options]  inputfile outputfile
  *djep [options]  [inputfile]
  * In the second style, output is always to standard output, which you'd
  * normally redirect to a file or pipe to some other program. Input is
  * either from a named file or from standard input (typically redirected).
  * The second style is convenient on Unix but is unhelpful on systems that
  * don't support pipes. Also, you MUST use the first style if your system
  * doesn't do binary I/O to stdin/stdout.
  * To simplify script writing, the "-outfile" switch is provided. The syntax
  *djep [options]  -outfile outputfile  inputfile
  * works regardless of which command line style is used.
  */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/djpeg.c

No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

; jdct.inc - private declarations for forward & reverse DCT subsystems
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; [TAB8]
; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdct.inc

No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains upsampling routines.
* 
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
* 
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
=================================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "i" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)
[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form “’%define’ expects a macro identifier”.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdefg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.
1.1.90 (1.2 beta1)

==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient...
version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building
libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.

[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
=================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then ‘make install’ now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.
[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
======

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
Initial release

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/ChangeLog.txt

No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpeglib.h

No license file was found, but licenses were detected in source scan.

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimd_none.c

No license file was found, but licenses were detected in source scan.

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   this list of conditions and the following disclaimer.
 - Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 - Neither the name of the libjpeg-turbo Project nor the names of its
   contributors may be used to endorse or promote products derived from this
   software without specific prior written permission.

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 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
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 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

#!/bin/sh
if [ ! ""id -u"" = "0" ]; then
  echo "ERROR: This script must be executed as root"
  exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM=`lsbom -s -f -l $RECEIPT/Contents/Archive.bom`
else
  LSBOM=`pkgutil --files $MACPACKAGE`
fi

mylsbom()
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

Open Source Used In Secure Workload 3.6.1.1 34176
Removing package files ...

EXITSTATUS=0

pushd /

mylsbom | while read file; do
  if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
  done

popd

echo Removing package directories ...

if [ -d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi

if [ -d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi

if [ -d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi

rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi

if [ -d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi

if [ -d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi

rm /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1

if [ -d $RECEIPT ]; then
  echo Removing package receipt ...
  rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
  echo Forgetting package $MACPACKAGE ...
  pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/uninstall.in

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/*
rdtarga.c

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains routines to read input images in Targa format.

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed Targa format).

Based on code contributed by Lee Daniel Crocker.

Found in path(s):
/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdtarga.c

No license file was found, but licenses were detected in source scan.

jaricom.c

Developed 1997-2009 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains probability estimation tables for common use in
arithmetic entropy encoding and decoding routines.

This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec

Found in path(s):
/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jaricom.c

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jpegtran.c

This file was part of the Independent JPEG Group's software:
Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
* */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jjpegtran.c
No license file was found, but licenses were detected in source scan.

/ *
* jcomapi.c
* 
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface routines that are used for both
* compression and decompression.
* */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/ *
* jcinit.c
* 
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* 
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
* /*
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jcinit.c
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/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jsimddct.h
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/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*/
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapistd.c

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Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)
Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTIWORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

\begin{verbatim}
LOCAL(int *)
function_name(int a, char *b)
{
    code...
}
\end{verbatim}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

\begin{verbatim}
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
\end{verbatim}

which is used like this:

\begin{verbatim}
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
\end{verbatim}

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".
It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpegc and djpegc, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/coderules.txt
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/*
  * jmemnobs.c
  */
* Copyright (C) 1992-1996, Thomas G. Lane.
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* 
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/jmemnobs.c
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/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/jsimd.h
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/*
 * jmemmgr.c
 *
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 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * pool-based allocation and freeing of memory;
* policy decisions about how to divide available memory among the
* virtual arrays;
* control logic for swapping virtual arrays between main memory and
  backing storage.
* The separate system-dependent file provides the actual backing-storage
  access code, and it contains the policy decision about how much total
  main memory to use.
* This file is system-dependent in the sense that some of its functions
  are unnecessary in some systems. For example, if there is enough virtual
  memory so that backing storage will never be used, much of the virtual
  array control logic could be removed. (Of course, if you have that much
  memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-
  turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
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* Modified 2009 by Bill Allombert, Guido Vollbeding.
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*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
  JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-
  turbo-1.2.90/rdjpgcom.c
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/*
* jidctfst.c
*
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*
* This file contains a fast, not so accurate integer implementation of the
  inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
  must also perform dequantization of the input coefficients.
A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jidctfst.c

No license file was found, but licenses were detected in source scan.
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide IDCT routines with various output sample block sizes for direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
* For N<8 we simply take the corresponding low-frequency coefficients of the 8x8 input DCT block and apply an NxN point IDCT on the sub-block to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least as good as common bilinear (averaging) spatial downsampling.
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jidctint.c

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 * wrbmp.c
 *
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 *
 * This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrbmp.c
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/ *
* rdppm.c
*
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* Modified 2009 by Bill Allombert, Guido Vollbeding.
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* 
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
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**
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*/

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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.
/*
 * jversion.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jversion.h

1.2875 lzo 2.06 8.el7

1.2875.1 Available under license:
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1.2876 ethtool 3.9

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 *
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 * *
 * This library is distributed in the hope that it will be useful,
namespace Gio
{

/** An object representing the permission to perform a certain action. 
 *  
 *  A Permission represents the status of the caller's permission to 
 *  perform a certain action. 
 *  
 *  You can query if the action is currently allowed and if it is 
 *  possible to acquire the permission so that the action will be allowed 
 *  in the future. 
 *  
 *  There is also an API to actually acquire the permission and one to 
 *  release it. 
 *  
 *  As an example, a Permission might represent the ability for the 
 *  user to write to a Settings object. This Permission object could 
 *  then be used to decide if it is appropriate to show a "Click here to 
 *  unlock" button in a dialog and to provide the mechanism to invoke 
 *  when that button is clicked. 
 *  
 *  @newin{2,42} 
 */
class Permission : public Glib::Object
{

_CLASS_GOBJECT(Permission, GPermission, G_PERMISSION, Glib::Object, GObject)

public:

_WRAP_METHOD(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire, errthrow)
_WRAP_METHOD_VOID(acquire_async(const SlotAsyncReady& slot{callback}, const
Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire_async, slot_name slot, slot_callback
SignalProxy_async_callback

__WRAP_METHOD(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_acquire_finish, errthrow)

__WRAP_METHOD(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release, errthrow)
__WRAP_METHOD(void release_async(const SlotAsyncReady& slot{callback}, const
Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release_async, slot_name slot, slot_callback
SignalProxy_async_callback)
__WRAP_METHOD(bool release_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_release_finish, errthrow)

__WRAP_METHOD(bool get_allowed() const, g_permission_get_allowed)
__WRAP_METHOD(bool get_can_acquire() const, g_permission_get_can_acquire)
__WRAP_METHOD(bool get_can_release() const, g_permission_get_can_release)

__WRAP_PROPERTY("allowed", bool)
__WRAP_PROPERTY("can-acquire", bool)
__WRAP_PROPERTY("can-release", bool)

protected:

__CTOR_DEFAULT

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
#ifdef __CONVERSION(
#else
#endif
__CONVERSION(\GAsyncResult*\, const Glib::RefPtr<AsyncResult>&\, \Glib::wrap($3, true)\)
__CONVERSION(\GCancellable*\, const Glib::RefPtr<Cancellable>&\, \Glib::wrap($3, true)\)

__WRAP_VFUNC(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}, acquire, errthrow)
__WRAP_VFUNC(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{?}), acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
__WRAP_VFUNC(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), acquire_finish, errthrow)

__WRAP_VFUNC(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}, release, errthrow)
__WRAP_VFUNC(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{?}), release_async, slot_name slot, slot_callback SignalProxy_async_callback)
__WRAP_VFUNC(bool release_finish(const Glib::RefPtr<AsyncResult>& result), release_finish, errthrow)

// You should never call this function except from a Gio::Permission implementation.
__WRAP_METHOD(void impl_update(bool allowed, bool can_acquire, bool can_release), acquire_finish, errthrow)

};

} // namespace Gio

// Generated by gmmproc 2.54.1 -- DO NOT MODIFY!
#endif _GIOMM_PERMISSION_H
#define _GIOMM_PERMISSION_H
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#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncresult.h>

#ifndef DOXYGEN_SHOULD_SKIP_THIS
using GPermission = struct _GPermission;
using GPermissionClass = struct _GPermissionClass;
#endif /* DOXYGEN_SHOULD_SKIP_THIS */

#ifndef DOXYGEN_SHOULD_SKIP_THIS
namespace Gio
{
 class Permission_Class; } // namespace Gio
#endif //DOXYGEN_SHOULD_SKIP_THIS

namespace Gio
{

/** An object representing the permission to perform a certain action. */
/** A Permission represents the status of the caller's permission to */
/** perform a certain action. */
/** You can query if the action is currently allowed and if it is */
/** possible to acquire the permission so that the action will be allowed */
/** in the future. */
There is also an API to actually acquire the permission and one to release it.

As an example, a Permission might represent the ability for the user to write to a Settings object. This Permission object could then be used to decide if it is appropriate to show a "Click here to unlock" button in a dialog and to provide the mechanism to invoke when that button is clicked.

@newin{2,42}

class Permission : public Glib::Object
{

#ifdef DOXYGEN_SHOULD_SKIP_THIS

public:
using CppObjectType = Permission;
using CppClassType = Permission_Class;
using BaseObjectType = GPermission;
using BaseClassType = GPermissionClass;

// noncopyable
Permission(const Permission&) = delete;
Permission& operator=(const Permission&) = delete;

private:  friend class Permission_Class;
static CppClassType permission_class_;

protected:
explicit Permission(const Glib::ConstructParams& construct_params);
explicit Permission(GPermission* castitem);

#endif /* DOXYGEN_SHOULD_SKIP_THIS */

public:

Permission(Permission&& src) noexcept;
Permission& operator=(Permission&& src) noexcept;
~Permission() noexcept override;

/** Get the GType for this class, for use with the underlying GObject type system. */
static GType get_type()  G_GNUC_CONST;

/* Get the GType for this class, for use with the underlying GObject type system. */
*/
}
#ifndef DOXYGEN_SHOULD_SKIP_THIS

static GType get_base_type() G_GNUC_CONST;
#endif

///Provides access to the underlying C GObject.
GPermission* gobj() { return reinterpret_cast<GPermission*>(gobject_); }

///Provides access to the underlying C GObject.
const GPermission* gobj() const { return reinterpret_cast<GPermission*>(gobject_); }

///Provides access to the underlying C instance. The caller is responsible for unrefig it. Use when directly setting fields in structs.
GPermission* gobj_copy();

private:

public:

/** Attempts to acquire the permission represented by @a permission.
 * The precise method by which this happens depends on the permission and the underlying authentication mechanism. A simple example is that a dialog may appear asking the user to enter their password.
 * You should check with g_permission_get_can_acquire() before calling this function.
 * If the permission is acquired then <tt>true</tt> is returned. Otherwise, <tt>false</tt> is returned and @a error is set appropriately.
 * This call is blocking, likely for a very long time (in the case that user interaction is required). See g_permission_acquire_async() for the non-blocking version.
 * @newin{2.26}
 * @param cancellable A Cancellable, or <tt>nullptr</tt>.
 * @return <tt>true</tt> if the permission was successfully acquired.
 * @throws Glib::Error
 */
bool acquire(const Glib::RefPtr<Cancellable>& cancellable);

/// A acquire() convenience overload.
bool acquire();

/** Attempts to acquire the permission represented by @a permission.
 *  
 *  This is the first half of the asynchronous version of
 *  g_permission_acquire().
 *  
 *  @newin{2,26}
 *
 *  @param cancellable A Cancellable, or <tt>nullptr</tt>
 *  @param slot The SlotAsyncReady to call when done.
 *  */
void acquire_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// A acquire_async() convenience overload.
void acquire_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to acquire the permission
 *  represented by @a permission.
 *  
 *  This is the second half of the asynchronous version of
 *  g_permission_acquire().
 *  
 *  @newin{2,26}
 *
 *  @param result The AsyncResult given to the SlotAsyncReady.
 *  @return <tt>true</tt> if the permission was successfully acquired.
 *  @throws Glib::Error
 *  */
bool acquire_finish(const Glib::RefPtr<AsyncResult>& result);

/** Attempts to release the permission represented by @a permission.
 *  
 *  The precise method by which this happens depends on the permission
 *  and the underlying authentication mechanism. In most cases the
 *  permission will be dropped immediately without further action.
 *  
 *  You should check with g_permission_get_can_release() before calling
 *  this function.
 *  
 *  If the permission is released then <tt>true</tt> is returned. Otherwise,
 *  <tt>false</tt> is returned and @a error is set appropriately.
 *  
 *  This call is blocking, likely for a very long time (in the case that
 *  user interaction is required). See g_permission_release_async() for
 *  the non-blocking version. 
 */
bool release(const Glib::RefPtr<Cancellable>& cancellable);

// A release() convenience overload.
bool release();

/** Attempts to release the permission represented by @a permission.
 * This is the first half of the asynchronous version of
 * g_permission_release().
 */
void release_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

// A release_async() convenience overload.
void release_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to release the permission
 * represented by @a permission.
 * This is the second half of the asynchronous version of
 * g_permission_release().
 */
bool release_finish(const Glib::RefPtr<AsyncResult>& result);

/** Gets the value of the 'allowed' property. This property is <tt>true</tt> if
 * the caller currently has permission to perform the action that
 * @a permission represents the permission to perform.
 */
bool get_allowed() const;

/** Gets the value of the 'can-acquire' property. This property is <tt>true</tt>
 * if it is generally possible to acquire the permission by calling
 * <tt>g_permission_acquire()</tt>.
 *
 * @return The value of the 'can-acquire' property.
 */
bool get_can_acquire() const;

/** Gets the value of the 'can-release' property. This property is <tt>true</tt>
 * if it is generally possible to release the permission by calling
 * <tt>g_permission_release()</tt>.
 *
 * @return The value of the 'can-release' property.
 */
bool get_can_release() const;

/** <tt>true</tt> if the caller currently has permission to perform the action that
 * @a permission represents the permission to perform.
 *
 * Default value: <tt>false</tt>
 *
 * @return A <tt>PropertyProxy_ReadOnly</tt> that allows you to get the value of the property,
 * or receive notification when the value of the property changes.
 */
Glib::PropertyProxy_ReadOnly< bool > property_allowed() const;

/** <tt>true</tt> if it is generally possible to acquire the permission by calling
 * <tt>g_permission_acquire()</tt>.
 *
 * Default value: <tt>false</tt>
 *
 * @return A <tt>PropertyProxy_ReadOnly</tt> that allows you to get the value of the property,
 * or receive notification when the value of the property changes.
 */
Glib::PropertyProxy_ReadOnly< bool > property_can_acquire() const;
/** <tt>true</tt> if it is generally possible to release the permission by calling
 * <tt>g_permission_release()</tt>.
 *
 * Default value: <tt>false</tt>
 *
 * @return A PropertyProxy_ReadOnly that allows you to get the value of the property,
 * or receive notification when the value of the property changes.
 */
Glib::PropertyProxy_ReadOnly< bool > property_can_release() const;

protected:

Permission();

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)

/// @throws Glib::Error.
virtual bool acquire_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

virtual void acquire_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// @throws Glib::Error.
virtual bool acquire_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);

/// @throws Glib::Error.
virtual bool release_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

virtual void release_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// @throws Glib::Error.
virtual bool release_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);

// You should never call this function except from a Gio::Permission implementation.

/** This function is called by the Permission implementation to update
 * the properties of the permission. You should never call this
 * function except from a Permission implementation.
 *
 * GObject notify signals are generated, as appropriate.
 *
 * @param allowed The new value for the 'allowed' property.
 * @param can_acquire The new value for the 'can-acquire' property.
 */
* @param can_release The new value for the 'can-release' property.
* /
void impl_update(bool allowed, bool can_acquire, bool can_release);

public:

public:
//C++ methods used to invoke GTK+ virtual functions:

protected:
//GTK+ Virtual Functions (override these to change behaviour):

//Default Signal Handlers::

};

} // namespace Gio

namespace Glib
{
/** A Glib::wrap() method for this object.
 * 
 * @param object The C instance.
 * @param take_copy False if the result should take ownership of the C instance. True if it should take a new copy or ref.
 * @result A C++ instance that wraps this C instance.
 * @relates Gio::Permission
 * /
Glib::RefPtr<Gio::Permission> wrap(GPermission* object, bool take_copy = false);
}

#endif /* _GIOMM_PERMISSION_H */

1.2881 protobuf-java 3.7.1

1.2882 lvm2 2.02.186 7.el7
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It was created by Thomas Jacob <jacob@internet24.de> using dh-make-perl.

The upstream author is:

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*/
1.2886 jline-terminal-jna 3.9.0

1.2887 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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information and restrictions when using the lightweight library with the
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information and restrictions when using the lightweight library with the
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Artem Portnoy &lt;Artem_Portnoy@ibi.com&gt; - generalisations for CMSProcessableBodyPart in
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<li>Michael Hau &lt;michael.hau@ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature./li>
<li>Johan Seland &lt;johans@netfonds.no&gt; - general toString for BigInteger class./li>
<li>Johannes Nicolaï &lt;johannes.nicolaia@novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer./li>
<li>Marc Doberva &lt;marc.doberva@64ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue./li>
<li>Jan Dvorak &lt;jan.dvorak@64mathan.cz&gt; - initial implementation of the light weight Null block cipher./li>
<li>Michael Coen &lt;mcoen@64forumsys.com&gt; - converting the ArrayOutofBounds Exception in DERInputStream into what it should have been./li>
<li>Chris Long &lt;aclong@64cecm.edu&gt; - adding public key decoding to PEMReader./li>
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<li>Jiri Urbanec &lt;jiri.urbanec@64logicacmg.com&gt; - patch to fix defect in DERBMPString.equals()./li>
<li>Justin Kolb &lt;jkolb@64pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception./li>
<li>Ralf Hauser &lt;ralfhauser@64gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests./li>
<li>Michal Dvorak &lt;M_Dvorak@64kb.cz&gt; - getNextUpdate patch for OCSP SingleResp./li>
<li>Oliver Refalo &lt;Olivier_Refalo@64fpl.com&gt; - null pointer exception fix for JDK 1.3 CMS SignedData objects./li>
<li>Mariusz Bandola &lt;mariusz.bandola@64cryptotech.com.pl&gt; - patch to DER GeneralizedTime. Compliance patch for OCSP TBS Request class. Patch to X509Name for dealing with general objects in sequences./li>
<li>Brien Oberstein &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility./li>
<li>Ian Haywood &lt;ian@64haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature./li>
<li>Jonathan Edwards &lt;s34gull@64mac.com&gt; - initial support for reading multiple rings from a PGP key file./li>
<li>Andrew Thornton &lt;andrew@64caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader./li>
<li>Gregor Leander &lt;gl@64bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name./li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers@esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation./li>
<li>Peter Sylvester &lt;Peter.Sylvester@64edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object./li>
<li>Doug &lt;ummmm@64myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys./li>
<li>Francois Staes &lt;fstaes@64netconsult.be&gt; - improvements to DEBitString, DER GeneralizedTime and initial implementation of DER GeneralizedString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement./li>
<li>W.R. Dittmer &lt;wdittmer@64cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to
PGPKeyPair to fix null pointer exception.</li>
<li>Perez Paz Luis Alberto &lt;laperez@#064banxico.org.mx&gt; - patch to use of ByteString in X.500 name.</li>
<li>James Wright &lt;James_Wright@#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim@#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;hausler@#064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;psai@#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@#064digieweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;lxz@#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen@#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem@#064-email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva@#064wedoconsulting.com&gt; - patch to fix overead issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps@#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach@#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PG signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug@#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, signature key ring data.</li>
<li>Matthew Mundy &lt;mmundy1@#064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill@#064profcon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;c.Breitenstrom@#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti@#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nscendoni@#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skyttä &lt;ville.skyttä@#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon@#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;miles.whiteley@#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;tamoliner@#064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos@#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org/&gt;EGEE project&lt;/a&gt; for making the work available.</li>
<li>Rolf Schillinger &lt;rolf@#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin@#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode
(GOFB) and GOST-3411.</li>
<li>Franck Leroy &lt;Franck.Leroy@keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka &lt;ymmk@064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nickolay Bolshakov &lt;tyrex@064rekssoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer@064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell@064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 7816-4 padding.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso@064libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson@064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassilev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom@064tmux.net&gt; - addition of DES-ede3 encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lu&rsquo;ks Kowalczyk &lt;lkukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5@064embode.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dmlee@064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;lbugbee@064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
<li>Brian O'Rourke &lt;brianorourke#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>

<li>Andreas Schwier &lt;andreas.schwier#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>

<li>David Josse &lt;david.josse#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>

<li>Kishimoto Kauzuhiko &lt;kazu-k#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>

<li>Lawrence Tan &lt;lwrntan#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>

<li>Carlos Valiente &lt;superdupont#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>

<li>Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>

<li>Olaf Keller, &lt;olaf.keller.bc#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>

<li>Jörg Eichhorn &lt;joeuml;rg.eichhorn#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>

<li>Karsten Ohme &lt;widerstand#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>

<li>Carlos Lozano Ruiz &lt;carlos#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>

<li>John Alfred Prufrock &lt;j.a.prufrock#064yahoo.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>

<li>Stefan Neusatz Guilhen &lt;stefan.neusatz#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>

<li>Marzio Lo Giudice &lt;marzio.logiudice#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>

<li>Georg Lippold &lt;georg.lippold#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>

<li>Chris Viles &lt;chris_viles#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>

<li>Pasi Eronen &lt;pasi.eronen#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>

encode method.</li>
<li>Maria Ivanova &lt;maria.ivanova&#064;#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&auml;berling &lt;arminha&#064;student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder &lt;mschilder&#064;google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourke &lt;xavier&#064;britannysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews&#064;#064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;reichomusha&#064;#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Nokeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info&#064;#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rjoaquim&#064;#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey&#064;#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list&#064;#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juliusdavies&#064;#064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g&#064;#064rtner.de&gt; - GnuPG compatibility changes for PBFileProcessor.</li>
<li>Olga K&auml;lther &lt;olga.kalther&#064;#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo&#064;#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&amp;uacute;ria Mar&amp;iacute; &lt;mnumaa&#064;#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js&#064;#064zi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike&#064;#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns&#064;#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller&#064;#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark&#064;#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff&#064;#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier&#064;#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;pknopp&#064;#064mtg.de&gt; - fix for named curve recognition in ECOST key generation.</li>
<li>Jakub Gwozdz &lt;gwozdziu&#064;#064rpg.pl&gt; - addition of getTime() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow&#064;#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi&#064;#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064;#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko&#064;#064gmail.com&gt; - security manager patch for PKCS1Encoding.
property check.</li>
<li>J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;geontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene &lt;michael@064sisgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larrañagana@aga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;ttobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCSExpression.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPCiphering.</li>
<li>Lothar Kummeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.</li>
<li>Richard Farr &lt;rfarr.se@064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricAuthenticatedBlockCipher.</li>
<li>Harendra Rawat &lt;hsrawat@064yahoo.com&gt; - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;rolf@lindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
Alex Artamonov &lt;alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau&#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kil&aring;ns &lt;markus&#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis&#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith&#064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio&#064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex&#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant&#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info&#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan&#064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo&#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche&#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf&#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa&#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo&#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis&#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski&#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev&#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten&#064openssl.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden&#064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev&#064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking&#064keynectis.com&gt; initial cut of EAC classes.

Tim Buku &lt;tbuku&#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd&#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak&#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid&#064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.
Phil Steitz &lt;phil.steitz@gmail.com&gt;: Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@gmail.com&gt;: Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petr Petrov &lt;p.petrov@064bers-soft.com&gt;: Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt;: Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@064quest.com&gt;: a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@064gmail.com&gt;: patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth@WPECGLtYbVi8Ri6Y7Vzl2LVd2EUVV99v3yNV3JWROG8.fms&gt;: speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@064the-b.org&gt;: patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt;: initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;phil_b@064yahoo.com&gt;: Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc@064carlstrom.com&gt;: compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel@064primekey.se&gt;: patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt;: pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt;: patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threelfish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@064primekey.se&gt;: patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt;: patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d@064gmail.com&gt;: initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy@064gmail.com&gt;: ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt;: patches for supporting PGP.SecretKeyRing/PGP.SecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirsch &lt;dev@064daniel-hirscher.de&gt;: patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@064gmail.com&gt;: initial implementation of EC keys for OpenPGP and RFC6637 support.
Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Muller &lt;eric.mueller&#064genuinepeople.com&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb&#064gmail.com&gt; initial implementation of Shacal2.

Roberto Tyteley &lt;roberto.tyteley&#064gmail.com&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick&#064devmune.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward&#064pdflabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;alklyubin&#064gmail.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter&#064tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli&#064604arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;daniel.heldt&#064cryptovision.com&gt; Initial support for encodable state message digests.

Robert Bushman &lt;bob@bouncycastle.org&#064traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;aarts&#064604riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/fra&amp;#237;iskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sirram &lt;mail_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco&#064604nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;tos&amp;#246;ias.wich&#064604sec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens &lt;hauke&amp;#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitzka &lt;j.kapitzka&#064604schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan&#064604primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.
Fix to encoding of EC private keys to ensure encoding matches order length.

Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2bDigest.

Documentation fixes to X9ObjectIdentifiers.

Correction to notification/error message handling in SignedMailValidator.

Fix for counter signature SID in CMSSignedData.

Initial CertPathLoopTest for demonstrating stack overflow issue.

Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Refinements to cert path validation (authority key addition, certificate order preservation).

method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Fix to S2K usage of none on changing passwords on keys without passwords originally.

Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

Fixed bugs in TlsUtils read methods [#BJA-592].

Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Patch to make cipher/hash/signature name methods in PGP internal API public.

Initial implementation of GOST R 34.11-2012.
William Glanton &lt;wglanton77#064gmail.com&gt;; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt;; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegele &lt;jnaegele#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/Signing.

Joerg Senekowitsch &lt;joerg.senekowitsch#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSA的步伐Key.

Alexandr Krivoshta &lt;wipe#064ya.ru&gt; N4 calculation fix to GOBF mode.

Artem Storozhuk &lt;storojs72#064gmail.com&gt; N4 calculation fix to GOBF mode.

Na Yu &lt;na.yu#064samsung.com&gt; Constructor patches to CMC PKIData.

Evanagios Karatsiolis &lt;ekaratsiolis#064mg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storojs72#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;https://github.com/scott#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;0xchrismccown#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMUT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA
key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt;: fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooeey&gt;: use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ecki&gt;: Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt;: Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitea&gt;: bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt;: update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt;: sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt;: detection of concurrency issue with pre-1.60 EC math library.

gfgrieu &lt;gfgrieu#064gmail.com&gt;: identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt;: patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier#064gmail.com&gt;: initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt;: review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt;: initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt;: corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt;: improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt;: performance optimisation in RSAPublicKey.

Giilis95 &lt;https://github.com/Giilis95&gt;: improved JSE compatibility for setEnabledCipherSuites.


Antoine Toullme &lt;https://github.com/atoullme&gt;: Initial implementation of EthereumIIESEngine.


Moses Palm&eacute; &lt;https://github.com/looly&gt;: Patch for addition of C1C3C2 mode to SM2Engine.

Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt;: Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.


Gaylor Bosson &lt;https://github.com/Gilthoniel&gt;: Initial implementation of Blake2xs.


Nick hitchan &lt;https://github.com/hitchan&gt;: Fix for typo in engineInitSign() in EdEc SignatureSpi.


Daniel Heldt &lt;https://github.com/dheldt&gt;: Fixing encodings in unicode tests to allow a wider range of Java
compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>

<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>

<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>

<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>

<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>

<li>Tobias Ospelt &lt;https://github.com/tobias@pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>

</ul>

1.2890 fiddle 1.0.0

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1.2893 ranger 2.6.5.0 292

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^L

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```text
## Special Recognition ##
```

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the
entire buildsystem we had. And he did this out of his own pocket, from
his own time, and has since upgraded the machine as well. It's now a 128GB,
48 core machine, with 4 SSD's and 4 sata disks : but the key metric is
that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver
CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix,
AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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THE BASIC LIBRARY FUNCTIONS

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1.2941 beautiful-soup 4.4.1

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1.2942 diffutils 2.8.1 28.el6

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1.2943 foomatic-db 4.0 8.20091126.el6

1.2943.1 Available under license:

    <printer id="printer/Epson-EPL-N2050PS"> 
    <make>Epson</make> 
    <model>EPL-N2050PS</model>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge
Works OK but only in 300 dpi mode. 600 dpi is mostly OK but some glitches appear in text.  

This printer is not to be confused with the European-market <a href="show_printer.cgi?recnum=Epson-EPL-5700L">EPL-5700L</a>, which is a winprinter for which there is only partial support for now.  

Consumables/Refills: toner (UKP60), electrostatic drum (UKP40)
<general>
  <ieee1284>MFG:Epson;MDL:EPL-N3000;</ieee1284>
  <manufacturer>Epson</manufacturer>
  <model>EPL-N3000</model>
</general>

<autodetect>
  <functionality>A</functionality>
  <driver>Postscript-Epson</driver>
  <drivers>
    <driver>
      <id>Postscript-Epson</id>
      <ppd>PPD/Epson/epln3000.ppd</ppd>
    </driver>
    <driver>
      <id>Postscript</id>
    </driver>
  </drivers>
  <comments>
    <en>
      This database entry was automatically generated from the PPD file for this printer.<p>

      Maximum paper width: 8.5 inches / 21.6 cm
      (Standard format printer)<p>

      Printing engine speed: 35 pages/min<p>
    </en>
  </comments>
</autodetect>

<printer id="printer/Epson-EPL-N1600PS">
  <make>Epson</make>
  <model>EPL-N1600PS</model>
  <mechanism>
    <laser/>
    <resolution>
      <dpi>
        <x>600</x>
        <y>600</y>
      </dpi>
    </resolution>
  </mechanism>
  <url>http://www.epson.co.uk/product/printers/lasers/epl5800/</url>
  <lang>
    <postscript level="2" />
    <pcl level="5e"/>
    <pjl/>
  </lang>
</printer>
PostScript version of the EPL-N1600

Consumables/Refills: toner cartridge, drum cartridge

<printer id="printer/Epson-EPL-6200">
  <make>Epson</make>
  <model>EPL-6200</model>
  <mechanism>
    <color/>
    <resolution>
      <dpi>
        <x>1200</x>
        <y>1200</y>
      </dpi>
    </resolution>
  </mechanism>
  <lang>
    <postscript level="3"/>
  </lang>
</printer>
<driver>Postscript-Epson</driver>
<drivers>
  <driver>
    <id>Postscript-Epson</id>
    <ppd>PPD/Epson/epl6200.ppd</ppd>
  </driver>
</drivers>
This database entry was automatically generated from the PPD file for this printer.

Maximum paper width: 8.5 inches / 21.6 cm
(Standard format printer)

Printing engine speed: 20 pages/min

Large format (A3/11x17) laser printer
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.
Consumables/Refills: toner cartridge, drum cartridge

Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

"N" version with network adapter and "PS" version with PostScript interpreter available.

Consumables/Refills: toner cartridge, drum cartridge
<laser/> <!--not "color"-->
<resolution>
<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism> <!--no "url"-->
<lang>
<pcl/> <!--no pjl-->
<text>
<charset>us-ascii</charset>
</text>
</lang>

<autodetect>
<!--no known parport probe information-->
</autodetect>
<functionality>A</functionality>
<driver>laserjet</driver> <!--verified-->
<comments>
<en>John Marbro reports that his 7100 work quite fine with the laserjet driver.
</en>
<p>
He's put together a PDQ driver declaration, or it ought to work fine when configured using any vendor's setup tools. </en>
</comments>
</printer>

<printer id="printer/Epson-EPL-5700L">
<make>Epson</make>
<model>EPL-5700L</model>
<mechanism>
<laser/> <!--not "color"-->
<resolution>
<dpi>
<x>1200</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
<lang>
<proprietary/>
<!--no pjl-->
</lang>

<autodetect>
<!--no known parport probe information-->
</autodetect>
<functionality>B</functionality>
<driver>epsonepl</driver> <!--verified-->
<comments>
</comments>
<en>
Known not to use a standard protocol as PostScript or PCL; not to be confused with the <a href="show_printer.cgi?recnum=Epson-EPL-5700">EPL-5700</a>.
<p>
Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a>; based on reverse-engineering of the printer's protocol. <p>

Printing works through both the parallel and USB port. <p><p>
Consumables/Refills: Separate photoconductor drum and toner cartridge <p>
be confused with the &lt;a href="show_printer.cgi?recnum=Epson-EPL-6100">EPL-6100&lt;/a&gt;.

Dr H. T. Leung and Roberto Ragusa have developed a &lt;a href="http://epsonepl.sourceforge.net/">driver&lt;/a&gt; based on reverse-engineering of the printer's protocol.&lt;p&gt;

The printer has parallel and USB connectors.&lt;p&gt;

This printer probably works with this driver but was not fully tested yet. Any test report is welcome.&lt;p&gt;&lt;p&gt;

Consumables/Refills: Separate photoconductor drum and toner cartridge&lt;p&gt;

</en&gt;
</comments&gt;
</printer&gt;
&lt;printer id="printer/Epson-EPL-5500W"&gt;
&lt;make&gt;Epson&lt;/make&gt;
&lt;model&gt;EPL-5500W&lt;/model&gt;
&lt;mechanism&gt;
&lt;laser/&gt;&lt;!--not "color"--&gt;
&lt;resolution&gt;
  &lt;dpi&gt;
    &lt;x&gt;600&lt;/x&gt;
    &lt;y&gt;600&lt;/y&gt;
  &lt;/dpi&gt;
&lt;/resolution&gt;
&lt;/mechanism&gt;&lt;!--no "url"--&gt;
&lt;lang&gt;
  &lt;proprietary/&gt;
  &lt;!--no pjl--&gt;&lt;!--No "text"?--&gt;&lt;/lang&gt;
&lt;autodetect&gt;
  &lt;!--no known parport probe information--&gt;&lt;/autodetect&gt;
&lt;functionality&gt;F&lt;/functionality&gt;&lt;!--unknown preferred "driver"--&gt;
  &lt;!--not "unverified"--&gt;&lt;!--no "contrib_url"--&gt;
&lt;comments&gt;
  &lt;en&gt;Doesn't seem to print without its "Windows Printing System". Connected to a Windows box the software emulates Laserjet2. This allows you to print via Samba with 300x300 dpi.&lt;br&gt;Keep in mind that there is no support for any Windows but Win95 and Win3.1(1).&lt;br&gt;Prints out completely black pages if Windows Box has not enough memory available.&lt;br&gt;Important! Mind the "W", there's a EPL-5500 without "W", too, this one might work.&lt;/en&gt;
&lt;/comments&gt;
&lt;/printer&gt;
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Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent. Consumables/Refills: toner cartridge, drum cartridge.
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Unfortunately, Epson's "eplaser" driver (or perhaps the printer's firmware) is somewhat buggy. It prints most documents, but images converted to PostScript with "convert" or by the built-in filters of CUPS leads often to incorrect printouts (stretched by a factor of 3 or 4 in horizontal direction). So it is recommended to use this printer in PostScript mode, uncompressed PPD files are on the CD.
delivered with the PostScript module, use the PPD files for Windows NT 4.0, they should work with all spoolers/applications under free OS.<p>

Further tests with the "pxlmono" driver did not show this problem. The printer works perfectly in 1200 dpi with this driver, only full-page photos take very long to be rendered.<p><p>

Consumables/Refills: toner cartridge, drum cartridge<p>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.<p>

Consumables/Refills: toner cartridge, drum cartridge<p>
Known not to use a standard protocol as PostScript or PCL; not to be confused with the <a href="show_printer.cgi?recnum=Epson-EPL-5800">EPL-5800</a>. 

Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a>; based on reverse-engineering of the printer's protocol.

Printing through the parallel port works, USB is not tested yet.

Consumables/Refills: Separate photoconductor drum and toner cartridge.
PostScript version of the EPL-N2500

Consumables/Refills: toner cartridge, drum cartridge

---

Open Source Used In Secure Workload 3.6.1.1  34707
This database entry was automatically generated from the PPD file for this printer. 

Maximum paper width: 11.7 inches / 29.7 cm
(Wide format printer)

Printing engine speed: 35 pages/min

Known not to use a standard protocol as PostScript or PCL; not to be confused with the <a href="show_printer.cgi?recnum=Epson-EPL-6100">EPL-6100</a>. Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a>, based on reverse-engineering of the printer's protocol.
The printer has parallel and USB connectors.<p>

This printer probably works with this driver but was not fully tested yet. Any test report is welcome.<p>

Consumables/Refills: Separate photoconductor drum and toner cartridge<p>

</en>
</comments>
</printer>
<printer id="printer/Epson-EPL-N1600">
<make>Epson</make>
<model>EPL-N1600</model>
<mechanism>
<laser/> <!-- not "color" -->
<resolution>
<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
</printer>
</url>
</lang>
<pcl level="5e"/>
<pjl/>
{text>
<charset>us-ascii</charset>
</text>
</lang>
<autodetect>
<general>
<commandset>PJL,EJL,ESCPL2-00,ESCP9-84,PRPXL24-01,HP ENHANCED PCL5,HPGL2-01,ESCPAGE-04</commandset>
<description>EPSON EPL-N1600</description>
<manufacturer>EPSON</manufacturer>
<model>EPL-N1600</model>
</general>
</autodetect>
<functionality>A</functionality>
<driver>hpijs-pcl5e</driver>
<!-- no "contrib_url" -->
<comments>
<en>

Consumables/Refills: toner cartridge, drum cartridge<p>
</en>
</comments>
<printer id="printer/Epson-EPL-N2750PS">
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<model>EPL-N2750PS</model>
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<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
<url>http://www.epson.co.uk/product/printers/lasers/epln2750/index.htm</url>
$lang>
<postscript level="3" />
<pcl level="6"/>
<pjl/>
</text>
<charset>us-ascii</charset>
</text>
</lang>
<autodetect>
</autodetect>
<functionality>A</functionality>
<driver>Postscript</driver>
<comments>
 PostScript version of the EPL-N2750
 A3/11x17 large format laser
 Consumables/Refills: toner cartridge, drum cartridge
</comments>
</printer>

<printer id="printer/Epson-EPL-5900L">
<make>Epson</make>
<model>EPL-5900L</model>
<mechanism>
<laser/>
<resolution>
<dpi>
<x>1200</x>
<y>600</y>
</dpi>
</resolution>
</printer>
Known not to use a standard protocol as PostScript or PCL; not to be confused with the <a href="show_printer.cgi?recnum=Epson-EPL-5900">EPL-5900</a>. Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a> based on reverse-engineering of the printer's protocol. Printing works through both the parallel and USB port. Consumables/Refills: Separate photoconductor drum and toner cartridge.

<printer id="printer/Epson-EPL-5200plus">
  <make>Epson</make>
  <model>EPL-5200+</model>
  <mechanism>
    <laser/>
    <resolution>
      <dpi>
        <x>300</x>
        <y>300</y>
      </dpi>
    </resolution>
  </mechanism>
</printer>
I don't know what is the difference between the EPL-5200 and the EPL-5200+.

Consumables/Refills: toner cartridge, drum cartridge
PostScript version of the EPL-N2050+<p>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.<p>
Consumables/Refills: toner cartridge, drum cartridge<p>

EPL-5700PS<p>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent. 
This printer is not to be confused with the European-market <a href="show_printer.cgi?recnum=Epson-EPL-5700L">EPL-5700L</a>, which is a winprinter (but is supported though).<p>

Consumables/Refills: toner (UKP60), electrostatic drum (UKP40)<p>
Consumables/Refills: toner cartridge, drum cartridge<p>
</p></en>
PostScript version of the EPL-6100

Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

"N" version with network adapter and "PS" version with PostScript interpreter available.

Consumables/Refills: toner cartridge, drum cartridge
This database entry was automatically generated from the PPD file for this printer.<p>

Maximum paper width: 11.7 inches / 29.7 cm (Wide format printer)<p>

Printing engine speed: 25 pages/min<p>

Epson provides a free (LGPL) driver for this printer. With this the
printer should work to its full extent.<p>

Consumables/Refills: toner cartridge, drum cartridge<p>
</en>
</comments>
</printer>

<printer id="printer/Epson-EPL-5800PS">
<make>Epson</make>
<model>EPL-5800PS</model>
<mechanism>
<laser/> <!--not "color"-->
<resolution>
<dpi>
<x>1200</x>
<y>1200</y>
</dpi>
</resolution>
</mechanism>
<url>http://www.epson.co.uk/product/printers/lasers/epl5800/</url>
<lang>
<postscript level="3" />
<pcl level="6"/>
<pjl/>
<text>
<charset>us-ascii</charset>
</text>
</lang>
<autodetect>
<!--no known parport probe information-->
</autodetect>
</driver>eplaser</driver>
</printer>

1.2944 strace 4.24-6.el7
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1.2945 jersey-container-servlet-core 2.28
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1.2952 python 2.7.14

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting 
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands 
as a successor of a language called ABC. Guido remains Python’s 
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for 
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) 
in Reston, Virginia where he released several versions of the 
software.

In May 2000, Guido and the Python core development team moved to 
BeOpen.com to form the BeOpen PythonLabs team. In October of the same 
year, the PythonLabs team moved to Digital Creations, which became 
Zope Corporation. In 2001, the Python Software Foundation (PSF, see 
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All Python releases are Open Source (see http://www.opensource.org for 
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<th>Owner</th>
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<td>BeOpen.com</td>
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
---------------

The `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `socket.getaddrinfo` and `socket.getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm
-----------------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------------

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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 */

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.2965 minlog 1.3.0

1.2965.1 Available under license:

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 *
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c
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; more details.

Found in path(s):
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int.asm
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 *
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 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
 * /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmarker.c
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 *
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* This file contains Huffman entropy encoding routines.

* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.c
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/*
* jdapistd.c
*
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* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapistd.c
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/*
* jidctfst.c
*
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* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* 
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctfst.c
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/*
* jdct.h
*
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* 
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (j dctmgr.c, j dctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.h
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJCompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90.jar
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90.jar
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJExample.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90.jar
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/TJUnitTest.java

/*
 * jidctred.c
 *
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 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
 */

/*
 * jdsample.c
 *
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 * Modifications:
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 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 */
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdsample.c
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/*
* jdmerge.c
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* 
* This file contains code for merged upsampling/color conversion.
* 
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* 
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
* 
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c
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 * jtrans.c
 *
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 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jtrans.c
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 * jcprepct.c
 *
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 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcprepct.c
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;*/
* jcapimin.c
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
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* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c
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/*
* jdpostct.c
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* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/ *
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
Based on code contributed by Lee Daniel Crocker.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

*/
* transupp.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

*/
* jddctmgr.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
 *
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */
/
/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */
/
/*
 * jQuery UI 1.7.2
 *
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 *
 * http://docs.jquery.com/UI
 */
/**
 * jQuery.ScrollTo - Easy element scrolling using jQuery.
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
 * Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
 * Date: 2/8/2008
 * @author Ariel Flesler
 * @version 1.3.2
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
  * each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
  * of each desired color. Such a file can be extracted from an
  * ordinary image PPM file with ppmtomap(1).
* 
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
  * currently implemented.
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided “as is” without express or
** implied warranty.
*/

Found in path(s):
/*
 */
* jdcoefct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcoeft.c
No license file was found, but licenses were detected in source scan.

/*! * jcomapi.c *
 */

* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*! * djpeg.c *
 */

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
*djpeg [options] inputfile outputfile
*djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
*djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 */
Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software
  (but it is highly useful as a set of PPM image manipulation programs).

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*

* jcpuff.c

* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines for progressive JPEG.
*
* We do not support output suspension in this module, since the library
* currently does not allow multiple-scan files to be written with output
* suspension.
*/

Found in path(s):
/*
   * jmemsys.h
   *
   * Copyright (C) 1992-1997, Thomas G. Lane.
   * This file is part of the Independent JPEG Group's software.
   * For conditions of distribution and use, see the accompanying README file.
   *
   * This include file defines the interface between the system-independent
   * and system-dependent portions of the JPEG memory manager. No other
   * modules need include it. (The system-independent portion is jmemmgr.c;
   * there are several different versions of the system-dependent portion.)
   *
   * This file works as-is for the system-dependent memory managers supplied
   * in the IJG distribution. You may need to modify it if you write a
   * custom memory manager. If system-dependent changes are needed in
   * this file, the best method is to #ifdef them based on a configuration
   * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
   * and USE_MAC_MEMMGR.
   */

Found in path(s):
/*
   * jidctint.c
   *
   * Copyright (C) 1991-1998, Thomas G. Lane.
   * Modification developed 2002-2009 by Guido Vollbeding.
   * This file is part of the Independent JPEG Group's software.
   * For conditions of distribution and use, see the accompanying README file.
   *
   * This file contains a slow-but-accurate integer implementation of the
   * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
   * must also perform dequantization of the input coefficients.
   *
   * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
   * on each row (or vice versa, but it's more convenient to emit a row at
   * a time). Direct algorithms are also available, but they are much more
   * complex and seem not to be any faster when reduced to code.
   *
   * This implementation is based on an algorithm described in
   * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.c

No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c

No license file was found, but licenses were detected in source scan.

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reasons for developing this free software was to help force convergence on
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h

 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c

 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* 
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_159190217.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/ *
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_159190217.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.h

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h

No license file was found, but licenses were detected in source scan.

/*
* jdcolor.c

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
command-line user interface and I/O routines for several uncompressed image
formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. Hierarchical processes are not
supported.

The library does not support the lossless (spatial) JPEG process. Lossless
JPEG shares little or no code with lossy JPEG, and would normally be used
without the extensive pre- and post-processing provided by this library.
We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG
spec should be readable for decompression. (We can be more restrictive about
what formats we can generate.) Although the system design allows for all
parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However,
the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C.
The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastd.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall
control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
   The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data
|       |       |
------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip"
buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller --|
       |-- Downsampling
Main controller --|
       |-- Forward DCT, quantize
       |-- Coefficient controller --|
       |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required.
Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```plaintext
|-- Entropy decoding
    |-- Coefficient controller --|
    |                            |-- Dequantize, Inverse DCT
Main controller --|
    |                    |-- Upsampling
    |-- Postprocessing controller --|-- Colorspace conversion
    |                            |-- Color quantization
    |                            |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG
file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output
section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; // ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.
With these conventions, JSAMPLE values can be assumed to be $\geq 0$. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)
Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.
This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size.
The JPEG marker writer currently does *not* cope with suspension.
We feel that this is not necessary; it is much easier simply to require
the application to ensure there is enough buffer space before starting.  (An
empty 2K buffer is more than sufficient for the header markers; and ensuring
there are a dozen or two bytes available before calling jpeg_finish_compress()
will suffice for the trailer.)  This would not work for writing multi-scan
JPEG files, but we simply do not intend to support that capability with
suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of
memory, and it manages large "virtual" data arrays on machines where the
operating system does not provide virtual memory.  Note that the same
memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or
decompression master record, and they will be released when that master
record is destroyed.

The memory manager does not provide explicit deallocation of objects.
Instead, objects are created in "pools" of free storage, and a whole pool
can be freed at once.  This approach helps prevent storage-leak bugs, and
it speeds up operations whenever malloc/free are slow (as they often are).
The pools can be regarded as lifetime identifiers for objects.  Two
pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried
across from one datastream to another; this includes all application-visible
parameters.  Image lifetime is used for everything else.  (A third lifetime,
JPOOL_PASS = one processing pass, was originally planned.  However it was
dropped as not being worthwhile.  The actual usage patterns are such that the
peak memory usage would be about the same anyway; and having per-pass storage
substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects.  Typically these require no more than 10K-20K total.
2. "Large" objects.  These may require tens to hundreds of K depending on
   image size.  Semantically they behave the same as small objects, but we
distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers,
   small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCks (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.
In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdccoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object

write_backing_store,

close_backing_store
On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). `jpeg_open_backing_store` is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call `self_destruct` (typically via `jpeg_destroy`) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height,
with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

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/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

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/*
 * jcparam.c
 *
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 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcpam.c
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 *
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 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c
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/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c
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/*
 * jcinit.c
 *
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 *
 * This file contains initialization logic for the JPEG compressor.
This routine is in charge of selecting the modules to be executed and making an initialization call to each one.

Logically, this code belongs in jcmaster.c. It's split out because linking this routine implies linking the entire compression library. For a transcoding-only application, we want to be able to use jcmaster.c without linking in the whole library.

/ *
* cdjpeg.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

/ *
* jfdctflt.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

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Modified 2002-2009 by Guido Vollbeding.
Modifications:
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This file contains master control logic for the JPEG decompressor.
These routines are concerned with selecting the modules to be executed and with determining the number of passes and the work to be done in each pass.

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* Copyright (C) 1991-1996, Thomas G. Lane.
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* Copyright (C) 2009, D. R. Commander.
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* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.c
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/*
 * jdhuff.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.c
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/License.rtf

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; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

;=====================================================================
; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text  align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text  align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elseifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text  align=16
%define SEG_CONST .rdata align=16
%else

Open Source Used In Secure Workload 3.6.1.1  34965
%elifdef MACHO; ----(nasm -fmacho -DMACHO ..)--------

; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
;  Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT                     dword           ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD    ; sizeof(INT)
%define INT_BIT                 DWORD_BIT       ; sizeof(INT)*BYTE_BIT

%define FP32                    dword           ; IEEE754 single
%define SIZEOF_FP32             SIZEOF_DWORD    ; sizeof(FP32)
%define FP32_BIT                DWORD_BIT       ; sizeof(FP32)*BYTE_BIT

%define MMWORD                  qword           ; int64  (MMX register)
%define SIZEOF_MMWORD           SIZEOF_QWORD    ; sizeof(MMWORD)
; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD       ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT   SIZEOF_QWORD  ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE   1 ; sizeof(BYTE)
%define SIZEOF_WORD   2 ; sizeof(WORD)
%define SIZEOF_DWORD  4 ; sizeof(DWORD)
%define SIZEOF_QWORD  8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)
%define BYTE_BIT      8 ; CHAR_BIT in C
%define WORD_BIT      16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT     32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT     64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT     128 ; sizeof(OWORD)*BYTE_BIT

; External Symbol Name

ifndef EXTN
%define EXTN(name) _ %+ name		; foo() -> _foo
endif

; Macros for position-independent code (PIC) support

ifndef GOT_SYMBOL
%undef PIC
endif

%ifdef PIC ; -------------------------------------------
%ifdef GOT_SYMBOL,_MACHO_PIC_; --------------------
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTIONSEG_CONST
const_base:
%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx register.
call%%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%%%geteip:
movecx, POINTER [esp]
ret
%%%adjust:
pushebp
xorebp,ebp; ebp = 0
%iifdni %1,ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
dbo8D,9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:
%ielse ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
dbo8D,8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:mov%1, ecx
%iendif ; (%1 == ebx)
popebp
%%%endmacro

%ielse; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
externGOT_SYMBOL
call%geteip
add%1, GOT_SYMBOL + $$ - wrt ..gotpc
jmpshort %%done
%%%geteip:
mov%1, POINTER [esp]
ret
%%%done:
%%%endmacro

%%%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro
%else; PIC -----------------------------------------
%define GOTOFF(got,sym) (sym)
%imacro get_GOT	1.nolist
%endmacro
%imacro pushpic	1.nolist
%endmacro
%imacro poppic	1.nolist
%endmacro
%imacro movpic	2.nolist
%endmacro
%endif; PIC -----------------------------------------

; --------------------------------------------------------------------------
; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))
%imacro alignx 1-2.nolist 0xFFFF
%%bs:	times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
  db 0x90                               ; nop
	imes MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
  db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
	imes MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
  db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
	imes MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
  db 0x8D,0xAD,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
	imes MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
  db 0x8B,0xED                          ; mov ebp,ebp
	imes MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
  db 0x90                               ; nop
%endmacro
; Align the next data on \([2,4,8,16,...]\)-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub  rsi, SIZEOF_XMMWORD
movaps XMMWORD [rsi], xmm6
sub  rdi, SIZEOF_XMMWORD
movaps XMMWORD [rdi], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsi]
add  rdi, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rdi]
add  rsi, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro
%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro
%endif
%endif
; -------------------------------------------------------------------------; Defines picked up from the C headers
;
%include "jsimdcfg.inc"
; -------------------------------------------------------------------------Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expandarchive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.
/*
* jchuff.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.

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/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.
*/

* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*

* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpege.c, and partly to djpege.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/doc/html/search/search.js
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the

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* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/lbjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

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* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/lbjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

ROWSER*
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* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

License: IJG

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 */
The actual configuration options for a particular installation are stored in jconfig.h. On many machines, jconfig.h can be generated automatically or copied from one of the "canned" jconfig files that we supply. But if you need to generate a jconfig.h file by hand, this file tells you how.

DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
EDIT A COPY NAMED JCONFIG.H.

These symbols indicate the properties of your machine or compiler.
#define the symbol if yes, #undef it if no.

Does your compiler support function prototypes?
(If not, you also need to use ansi2knr, see install.txt)
#define HAVE_PROTOTYPES

Does your compiler support the declaration "unsigned char"?
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

Define "void" as "char" if your compiler doesn't know about type void.
#define void char

Define "const" as empty if your compiler doesn't know the "const" keyword.
#define const

Define this if an ordinary "char" type is unsigned.
If you're not sure, leaving it undefined will work at some cost in speed.
If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
#undef CHAR_IS_UNSIGNED

Define this if your system has an ANSI-conforming <stddef.h> file.
#define HAVE_STDDEF_H

Define this if your system has an ANSI-conforming <stdlib.h> file.
/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__
/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#if defined JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#endif /* JPEG_INTERNALS */

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjjpeg/djpeg (see cjjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#if defined JPEG_CJJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjjpeg.c or djpeg.c.
*/
#endif /* TWO_FILE_COMMANDLINE */

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#if defined NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen("rb") or fopen("wb").
* This is necessary on systems that distinguish text files from binary files,
and is harmless on most systems that don't. If you have one of the rare systems that complains about the "b" spec, define this symbol.

/*
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* jpeglib.h
*
* This file was part of the Independent JPEG Group's software:
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* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/
IJG JPEG LIBRARY: CODING RULES

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This file is part of the Independent JPEG Group's software.
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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool `ansi2knr.c’ (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

\begin{verbatim}
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
\end{verbatim}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as
\begin{verbatim}
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
\end{verbatim}

which is used like this:

\begin{verbatim}
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
\end{verbatim}

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).
If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator
is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore,
we want it to be reentrant so that it can be used by applications that process
multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc;
pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static
wherever possible. (Note that our method-based calling conventions help this
a lot: in many modules only the initialization function will ever need to be
called directly, so only that function need be externally visible.) All
global function names should begin with "jpeg_", and should have an
abbreviated name (unique in the first six characters) substituted by macro
when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module
should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables
that should be private to a module can be placed into private structures (see
the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the
library proper; source files that are not part of the library, such as cjpeg.c
and djpeg.c, do not begin with "j". Keep source file names to eight
characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep
compression and decompression code in separate source files --- some
applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the
modules that are used in cjpeg/djpeg but are not part of the JPEG library
proper. Those modules are not really intended to be used in other
applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 */
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.

* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.

* These routines are used by both the compression and decompression code.
*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2011 D. R. Commander.  All Rights Reserved.
 *
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 * modification, are permitted provided that the following conditions are met:
 * *
 * - Redistributions of source code must retain the above copyright notice,
 *   this list of conditions and the following disclaimer.
 * - Redistributions in binary form must reproduce the above copyright notice,
 *   this list of conditions and the following disclaimer in the documentation
 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 *
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 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
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 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/tjutil.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/tjutil1.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/rdbmp.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/jcstest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/bmp.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdiff/libjpeg-turbo-1.2.90/bmp.c  
No license file was found, but licenses were detected in source scan.

From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the
number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's
JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific
JERR_PPM_TOOLARGE enum value.

Fixes #258
---
cerror.h | 5 +++--
rdbmp.c | 7 ++++++-
rdbmp.c | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)
diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
@@ -48,6 +48,7 @@
 JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
 JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
 JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
 JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
 JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
 JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@
 JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
 #ifdef PPM_SUPPORTED
 JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
 JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
- JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
 JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+ JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
 JMESSAGE(JTRC_PGM, "%ux%u PGM image")
 JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
 JMESSAGE(JTRC_PPM, "%ux%u PPM image")

diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 *
 * This file was part of the Independent JPEG Group's software:
 *
@@ -64,6 +64,7 @@
 typedef struct _bmp_source_struct {
 JDIMENSION row_width;/* Physical width of scanlines in file */
   int bits_per_pixel;/* remembers 8- or 24-bit format */

+ int cmap_length;       /* colormap length */
} bmp_source_struct;

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
{
    bmp_source_ptr source = (bmp_source_ptr) sinfo;
    register JSAMPARRAY colormap = source->colormap;
+    int cmaplen = source->cmap_length;
    JSAMPARRAY image_ptr;
    register int t;
    register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
             outptr = source->pub.buffer[0];
    for (col = cinfo->image_width; col > 0; col--) {
        t = GETJSAMPLE(*inptr++);
+        if (t >= cmaplen)
+            ERREXIT(cinfo, JERR_BMP_OUTOF RANGE);
*outptr++ = colormap[0][t];/* can omit GETJSAMPLE() safely */
*outptr++ = colormap[1][t];
*outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
          source->colormap = (*cinfo->mem->alloc_sarray)
            ((j_common_ptr) cinfo, JPOOL_IMAGE,
            (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+          source->cmap_length = (int)biClrUsed;
/* and read it from the file */
          read_colormap(source, (int) biClrUsed, mapentrysize);
/* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
          JSAMPROW pixrow;/* FAR pointer to same */
          size_t buffer_width;/* width of I/O buffer */
          JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
-         int maxval;
+         unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
                      }

          if (val > maxval)
-                      ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+                      ERREXIT(cinfo, JERR_PPM_OUTOF RANGE);
return val;
}
--
2.17.2

Found in path(s):

No license file was found, but licenses were detected in source scan.

/ *
* jcsample.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains downsampling routines.
* 
* Downsampling input data is counted in "row groups". A row group
* is defined to be max \_\_v\_samp\_factor pixel rows of each component,
* from which the downsampler produces \_\_v\_samp\_factor sample rows.
* A single row group is processed in each call to the downsampler module.
* 
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
* 
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
* 
* An excellent reference for image resampling is
* 
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmcvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF.
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-control.tmpl

No license file was found, but licenses were detected in source scan.

/*
  * jsimd_x86_64.c
  *
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright 2009-2011 D. R. Commander
  *
  * Based on the x86 SIMD extension for IJG JPEG library,
  * Copyright (C) 1999-2006, MIYASAKA Masaru.
  * For conditions of distribution and use, see copyright notice in jsimdext.inc
  *
  * This file contains the interface between the "normal" portions
  * of the library and the SIMD implementations when running on a
  * x86_64 architecture.
  */

Found in path(s):
 * /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c

No license file was found, but licenses were detected in source scan.

; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*)((s))
%define COL(n,b,s)((b)+(n)*)((s)*DCTSIZE)
%define DWBLOCK(n,b,s)((b)+(n)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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*******************************************************************************
** Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=================================
Installation Directory

---
This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and
c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of
libjpeg-turbo resides in a different directory, then adjust the instructions
accordingly.

Replacing libjpeg at Run Time

Un*x

----

If a Un*x application is dynamically linked with libjpeg, then you can replace
libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH.
For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys   0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys   0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows

-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include

and

LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set
Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/\lib to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=====================  
Colorspace Extensions  
=====================  

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

JCS_EXT_RGB /* red/green/blue */  
JCS_EXT_RGBX /* red/green/blue/x */  
JCS_EXT_BGR /* blue/green/red */  
JCS_EXT_BGRX /* blue/green/red/x */  
JCS_EXT_XBGR /* x/blue/green/red */  
JCS_EXT_XRGB /* x/red/green/blue */  
JCS_EXT_RGBA /* red/green/blue/alpha */  
JCS_EXT_BGRA /* blue/green/red/alpha */  
JCS_EXT_ABGR /* alpha/blue/green/red */  
JCS_EXT_ARGB /* alpha/red/green/blue */  

Setting cinfo.in_color_space (compression) or cinfo.out_color_space
(decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)
By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
    libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
    See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
    Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

----------------------
libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that
there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====================================  
In-Memory Source/Destination Managers  
=====================================  

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************  
** Mathematical Compatibility  
*******************************************************************************  

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to
be identical (the accuracy of the floating point DCT/IDCT is constant when
using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on
the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is
still using the same algorithms as libjpeg v6b, so there are several specific
cases in which libjpeg-turbo cannot be expected to produce the same output as
libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8
implements those scaling algorithms a bit differently than libjpeg v6b does,
and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this
with its DCT/IDCT scaling algorithms rather than with a separate
downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to
improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
"non-smooth") chrominance upsampling, because libjpeg v8 does not support
merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

============= Restart Markers =============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers
in a way that makes the rest of the libjpeg infrastructure happy, so it is
necessary to use the slow Huffman decoder when decompressing a JPEG image that
has restart markers. This can cause the decompression performance to drop by
as much as 20%, but the performance will still be much greater than that of
libjpeg. Many consumer packages, such as PhotoShop, use restart markers when
generating JPEG images, so images generated by those programs will experience
this issue.

============= Fast Integer Forward DCT at High Quality Levels =============
The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%.

It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README-turbo.txt

No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.c

No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 * 
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * 
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.
/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcamin.c to avoid linking the
 * whole compression library into a transcoder.
 */

/* transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

/* jaricom.c
 *
Open Source Used In Secure Workload 3.6.1.1  35005

* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* 
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c

No license file was found, but licenses were detected in source scan.

/*
* jpegcomp.h
*
* Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
* 
* JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c

No license file was found, but licenses were detected in source scan.

/*
* jdatasrc-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdout stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c
/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src-rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cderror.h

No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems.
without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to
0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "%!define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in
valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.
[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).
1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for
JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
==================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)
[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.
0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmainct.c

No license file was found, but licenses were detected in source scan.

/
*
* jinclude.h
*

* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
 *
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
***************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,*
* the ability to read GIF files has been removed from the IJG distribution.*
* Sorry about that.                                                     *
***************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 * *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 * *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file	Read quantization tables from text file
* -scans file	Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; -----------------------------------------------------------------------------

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif
%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcolsamp.inc

No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                   *
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/
/*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY
This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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Buffered-image mode
Abbreviated datastreams and multiple images
Special markers
Raw (downsampled) image data
Really raw data: DCT coefficients
You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
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The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

Data formats

Before diving into procedural details, it is helpful to understand the
image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each
pixel having the same number of "component" or "sample" values (color
channels). You must specify how many components there are and the colorspace
interpretation of the components. Most applications will use RGB data
PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.
A remarkable number of people manage to miss this, only to find that their
programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color
or full grayscale (or sometimes another colorspace such as CMYK). You can
feed in a colormapped image by expanding it to full-color format. However
JPEG often doesn't work very well with source data that has been colormapped,
because of dithering noise. This is discussed in more detail in the JPEG FAQ
and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to
right. The component values for each pixel are adjacent in the row; for
array of data type JSAMPLE --- which is typically "unsigned char", unless
you've changed jmorecfg.h. (You can also change the RGB pixel layout, say
to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in
that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of
scanlines; so the scanlines need not be physically adjacent in memory. Even
if you process just one scanline at a time, you must make a one-element
pointer array to conform to this structure. Pointers to JSAMPLE rows are of
type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call.
It is not possible to process part of a row at a time. Scanlines are always
processed top-to-bottom. You can process an entire image in one call if you
have it all in memory, but usually it's simplest to process one scanline at
time.

For best results, source data values should have the precision specified by
BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress
data that's only 6 bits/channel, you should left-justify each value in a
byte before passing it to the compressor. If you need to compress data
that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12.
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details,
except that colormapped output is supported. (Again, a JPEG file is never
colormapped. But you can ask the decompressor to perform on-the-fly color
quantization to deliver colormapped output.) If you request colormapped
output then the returned data array contains a single JSAMPLE per pixel;
its value is an index into a color map. The color map is represented as
a 2-D JSAMPARRAY in which each row holds the values of one color component,
that is, colormap[i][j] is the value of the i'th color component for pixel
value (map index). Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
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Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

ejpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination
module which knows how to write to a stdio stream. You can use your own
destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio
stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s
", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the
output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between
calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following
fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions
of 1 to 64K pixels in either direction. The input color space is typically
RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special
color spaces", later, for more info.) The `in_color_space` field must be
assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or
`JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the
image is encoded. Most applications don't need or want to know about all
these parameters. You can set all the parameters to reasonable defaults by
calling jpeg_set_defaults(); then, if there are particular values you want
to change, you can do so after that. The "Compression parameter selection"
section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(),
because the defaults depend on the source image colorspace. However the
other three source image parameters need not be valid until you call
jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more
than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary
source image info and other parameters, call jpeg_start_compress() to begin
a compression cycle. This will initialize internal state, allocate working
storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream
will be written. This is appropriate in most cases. If you think you might
want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines()
one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass
just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else’s, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen. In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:
8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don’t need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it’s safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for
both compression and decompression objects.)

2. Specify the source of the compressed data (e.g., a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.
More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension”, below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection”, below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default
decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- output_width: image width and height, as scaled
- output_height
- out_color_components: # of color components in out_color_space
- output_components: # of color components returned per pixel
- colormap: the selected colormap, if any
- actual_number_of_colors: number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
should NOT be against image_height, unless you never use scaling. The
image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that
jpeg_read_scanlines() reads at least one scanline per call, until the
bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that
jpeg_read_scanlines() fills it. (The current implementation returns only a
few scanlines per call, no matter how large a buffer you pass.) So you must
always provide a loop that calls jpeg_read_scanlines() repeatedly until the
whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to
complete the decompression cycle. This causes working memory associated
with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio
stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct
total number of scanlines. If you wish to abort decompression, call
jpegAbort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as
discussed next, or you may use it to decompress another image. In that case
return to step 2 or 3 as appropriate. If you do not change the source
manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling
jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of
destroying compression objects applies here too.

Typical code:
jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end;
it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
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Compression parameter selection
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This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don’t know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

**jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)**

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

**jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)**

Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

**int jpeg_quality_scaling (int quality)**

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

**jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)**

[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

**jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)**

Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535.
(or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.
unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(i.e., YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage. Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
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Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width		Width and height of image
JDIMENSION image_height
int num_components			Number of color components
J_COLOR_SPACE jpeg_color_space		Colorsapce of image
boolean saw_JFIF_marker	TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version	Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit		Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker	TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform	Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application
can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It’s also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

**JDIMENSION output_width**: Actual dimensions of output image.
**JDIMENSION output_height**

int out_color_components: Number of color components in out_color_space.
int output_components: Number of color components returned.
int rec_outbuf_height: Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that
indicate the color space of the JPEG file. It is important to ensure that
these are written correctly, or omitted if the JPEG file's color space is not
one of the ones supported by the de-facto standards. jpeg_set_colorspace()
will set the compression parameters to include or omit the APPn markers
properly, so long as it is told the truth about the JPEG color space.
For example, if you are writing some random 3-component color space without
conversion, don't try to fake out the library by setting in_color_space and
jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an
APPn marker of your own devising to identify the colorspace --- see "Special
markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<->YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (i_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (i_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (i_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (i_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (theaddon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:  
ERREXITn(...)for fatal errors  
WARNMSn(...)for corrupt-data warnings  
TRACEMSn(...)for trace and informational messages.  
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)  
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.
A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's `empty_output_buffer` method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- `init_destination (j_compress_ptr cinfo)`
  Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

- `empty_output_buffer (j_compress_ptr cinfo)`
  This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- `term_destination (j_compress_ptr cinfo)`
  Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.
Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```c
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

- **init_source (j_decompress_ptr cinfo)**
  Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

- **fill_input_buffer (j_decompress_ptr cinfo)**
  This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

- **skip_input_data (j_decompress_ptr cinfo, long num_bytes)**
  Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

- **resync_to_restart (j_decompress_ptr cinfo, int desired)**
  This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back

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up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you’d like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it’s probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.
To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but
for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior
buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to
suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making
input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

\[
\begin{align*}
\text{jpeg_create_decompress()} \\
\text{set data source} \\
\text{jpeg_read_header()} \\
\text{set overall decompression parameters} \\
cinfo.buffered_image = \text{TRUE}; /* select buffered-image mode */ \\
\text{jpeg_start_decompress()} \\
\text{for (each output pass) } \{ \\
\quad \text{adjust output decompression parameters if required} \\
\quad \text{jpeg_start_output()/* start a new output pass */} \\
\quad \text{for (all scanlines in image) } \{ \\
\quad\quad \text{jpeg_read_scanlines()} \\
\quad\quad \text{display scanlines} \\
\quad\} \\
\quad \text{jpeg_finish_output()/* terminate output pass */} \\
\} \\
\text{jpeg_finish_decompress()} \\
\text{jpeg_destroy_decompress()} \\
\end{align*}
\]

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

\[
\text{while (! jpeg_input_complete(&cinfo))}
\]

and the start-output call should read

\[
\text{jpeg_start_output(&cinfo, cinfo.input_scan_number);} \\
\]

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it's best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is
something like this:

do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process
might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using
the current input scan number for the output target scan number; if a
higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst
case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
   These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

**IMPORTANT:** because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass
quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten
In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate
the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data..
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
eif (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
eif (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated
ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

ejpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension"."

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this
If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn’t ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

\[\text{boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)}\]

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are
using a suspending data source and it tells you to suspend. See the standard
marker processors in jdmarker.c for appropriate coding methods if you need to
use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur
properly. We recommend copying and extending the default processors if you
want to do that. (A better idea is to save these marker types for later
examination by calling jpeg_save_markers(); that method doesn't interfere
with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG
compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write or
read raw data, bypassing the normal preprocessing or postprocessing steps.
The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same
dimensions.

To compress raw data, you must supply the data in the colorspace to be used
in the JPEG file (please read the earlier section on Special color spaces)
and downsampled to the sampling factors specified in the JPEG parameters.
You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional
arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one
color component. This structure is necessary since the components are of
different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downsampled row must contain a
multiple of 8 valid samples, and there must be a multiple of 8 sample rows
for each component. (For applications such as conversion of digital TV
images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data() takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
\[
cinfo->comp_info[i].width_in_blocks*DCTSIZE \text{ samples per row}
\]
\[
cinfo->comp_info[i].height_in_blocks*DCTSIZE \text{ rows in image}
\]
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is
\[
cinfo->comp_info[0].h_samp_factor = 2 \text{ for } Y
\]
\[
cinfo->comp_info[0].v_samp_factor = 2
\]
\[
cinfo->comp_info[1].h_samp_factor = 1 \text{ for } Cb
\]
\[
cinfo->comp_info[1].v_samp_factor = 1
\]
\[
cinfo->comp_info[2].h_samp_factor = 1 \text{ for } Cr
\]
\[
cinfo->comp_info[2].v_samp_factor = 1
\]
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampling_width = 101 and width_in_blocks = 13 for Y, downsampling_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
----------------------------------
It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammmish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or
allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppressTables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

--------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library sets `total_passes` based on the assumption that there will be one more output pass if the input file end hasn't yet been read (`jpeg_input_complete()` isn't `TRUE`), but no more output passes if the file end has been reached when the output pass is started. This means that `total_passes` will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object. Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes. There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coeficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.
The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.
The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- chars at least 8 bits wide
- shorts at least 16 bits wide
- ints at least 16 bits wide
- longs at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger...
than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary
depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMlZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/libjpeg.txt
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TurboJPEG Java Wrapper
======================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.
Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

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jdcolest.c

This file was part of the Independent JPEG Group's software:
Copyright (C) 1991-1997, Thomas G. Lane.
Copyright (C) 2009, 2011, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.
This file contains output colorspace conversion routines.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Td6d/libjpeg-turbo-1.2.90/java/README
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Td6d/libjpeg-turbo-1.2.90/jdcolext.c
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/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

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; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimddct.h
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/*
 * jcmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *     virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *     backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

*/
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/
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* jsimd_none.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
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*
* This file contains stubs for when there is no SIMD support available.
*/

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd_none.c
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/**
* jsimd_arm.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
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*
* This file contains the interface between the “normal” portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
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libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
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/*
 * jfdctfst.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.

* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctfst.c
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/*
* wrle.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrrle.c
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmmxred.asm
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsamss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmerss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfsseflt.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfssflt.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcclrss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
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 *
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 * Modified 2009 by Guido Vollbeding.
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 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

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Version 2.1, February 1999

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1.2969 httplib 0.7.7

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1.2970 arel 9.0.0

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1.2971 jline 0.9.94

1.2972 binutils 2.23.52
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, destation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.
Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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^L

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2974 mesa 18.0.5 3.el7
1.2974.1 Available under license:
/* Legal characters in GLSL are:
 * 
 * Identifier characters:
 * 
 *     Letters a-z
 *     Letters A-Z
 *     Underscore
 *     Numbers 0-9
 * 
 * Punctuation:
 * 
 *     Period, plus, dash, slash, asterisk, percent, angled brackets,
 *     square brackets, parentheses, braces, caret, vertical bar,
 *     ampersand, tilda, equals, exclamation point, colon, semicolon,
 *     comma, and question mark
 * 
 * Special:
 * 
 *     Number sign (as used in preprocessor)
 * 
 *     Backslash just before newline as line continuation
 * 
 * White space:
 * 
 *     Space, horizontal tab, vertical tab, form feed, carriage-return,
 *     and line-feed.
 * 
 * [GLSL Language Specficiation 4.30.6, section 3.1]
 * 
 * In this file, we test each of these in turn as follows:
 * 
 *     Identifier characters: All pass through unchanged
 *     Punctuation: All pass through unchanged
 *     Special: Empty directive replaced with blank line
 *     Line continuation merges two lines, then a blank line
 *     Whitespace: 4 horizontal space characters each replaced with space
 *              2 newline characters each replaced with a newline
 * */
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# the Software is furnished to do so, subject to the following conditions:
#
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge
On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
>
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
>
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom

---

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,
What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from
Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

The Mesa 3D Graphics Library

Disclaimer

Mesa is a 3-D graphics library with an API which is very similar to that of OpenGL.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from Silicon Graphics, Inc. (SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

Please do not refer to the library as MesaGL (for legal reasons). It's just Mesa or The Mesa 3-D graphics library.
<p>* OpenGL is a trademark of <a href="https://www.sgi.com/">Silicon Graphics Incorporated</a>.</p>

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<p>The Mesa distribution consists of several components. Different copyrights and licenses apply to different components. For example, the GLX client code uses the SGI Free Software License B, and some of the Mesa device drivers are copyrighted by their authors. See below for a list of Mesa's main components and the license for each.</p>

<p>The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.</p>

<p>The default Mesa license is as follows:</p>

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</pre>

<h1>Attention, Contributors</h1>
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### Mesa Component Licenses

<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
<tr>
<td>C11 thread</td>
<td>include/c11/threads*.h</td>
<td>Boost (permissive)</td>
</tr>
<tr>
<td></td>
<td>emulation</td>
<td></td>
</tr>
</tbody>
</table>

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Thu Sep 17, 2009

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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| 2.1.3   | 2.1.2       | 2002 | PSF     | yes         
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| 2.2.2   | 2.2.1       | 2002 | PSF     | yes         
| 2.2.3   | 2.2.2       | 2003 | PSF     | yes         
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| 2.3.2   | 2.3.1       | 2002-2003 | PSF | yes         
| 2.3.3   | 2.3.2       | 2002-2003 | PSF | yes         
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| 2.6.5   | 2.6.4       | 2010  | PSF     | yes         
| 2.7     | 2.6         | 2010  | PSF     | yes         

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tomb - support for clean goroutine termination in Go.

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1.2993 go-chi-render 1.0.1

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1.2996 power-assert 0.4.1
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/*
* hmac.c is derived from:

Network Working Group					    H. Krawczyk
Request for Comments: 2104					    IBM
Category: Informational					     M. Bellare
    UCSD
    R. Canetti
    IBM
    February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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*Version 1.1*

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tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
Hyphenation Patterns

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The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

The patterns have been converted to a format groff can understand.

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehyphf.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
http://dante.ctan.org/CTAN/language/hyphenation/dehyphf.tex

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The file `tmac/hyphenex.det' is identical to the file `dehyphfex.tex', which can be found at
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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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1.3009 rcrowley-go-metrics 0.0.0-20181016184325-3113b8401b8a

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1.3010 gofrs-flock 0.7.0

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### 1.3028 wheel 0.30.0

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John R. Hauser
2018 January 20

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 * @(#)mman.h      8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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 *
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 */
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

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Key Dates
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* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
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== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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   @(#)errno.h     8.5 (Berkeley) 1/21/94 */

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
/* #define TARGET_ECHILD           10              /* No child processes */
   #define TARGET_EDEADLK          11              /* Resource deadlock avoided */
   /* 11 was EAGAIN */
   #define TARGET_ENOMEM           12              /* Cannot allocate memory */
   #define TARGET_EACCES           13              /* Permission denied */
   #define TARGET_EFAULT           14              /* Bad address */
   #define TARGET_ENOTBLK          15              /* Block device required */
   #define TARGET_EBUSY            16              /* Device busy */
   #define TARGET.EXIST            17              /* File exists */
   #define TARGET_EXDEV            18              /* Cross-device link */
   #define TARGET_ENODEV           19              /* Operation not supported by device */
   #define TARGET_ENOTDIR          20              /* Not a directory */
   #define TARGET_EISDIR           21              /* Is a directory */
   #define TARGET EINVAL           22              /* Invalid argument */
   #define TARGET_ENFILE           23              /* Too many open files in system */
   #define TARGET_EROFS            24              /* Too many open files */
   #define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
   #define TARGET_ETXTBSY          26              /* Text file busy */
   #define TARGET_EFBIG            27              /* File too large */
   #define TARGET_ENOSPC           28              /* No space left on device */
   #define TARGET_ESPIPE           29              /* Illegal seek */
   #define TARGET_SOFTWARE         30              /* Read-only file system */
   #define TARGET_EMLINK           31              /* Too many links */
   #define TARGET_EPipe            32              /* Broken pipe */
   /* math software */
   #define TARGET_EDOM             33              /* Numerical argument out of domain */
   #define TARGET_ERANGE           34              /* Result too large */
   /* non-blocking and interrupt i/o */
   #define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
   #define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
   #define TARGET_EINPROGRESS      36              /* Operation now in progress */
   #define TARGET_EALREADY 37              /* Operation already in progress */
   /* ipc/network software -- argument errors */
   #define TARGET_ENOTSOCK         38              /* Socket operation on non-socket */
   #define TARGET_EDESTADDRREQ     39              /* Destination address required */
   #define TARGET_EMagosize        40              /* Message too long */
   #define TARGET_EPROTOTYPE       41              /* Protocol wrong type for socket */
   #define TARGET_ENOPROTOOPT      42              /* Protocol not available */
   #define TARGET_EPROTONOSUPPORT  43              /* Protocol not supported */
   #define TARGET_ESOCKTNSUPPORT   44              /* Socket type not supported */
   #define TARGET_EOPNOTSUPP       45              /* Operation not supported */
   #define TARGET_ESUPPORT         46              /* Protocol family not supported */
   #define TARGET_EAFNOSUPPORT     47              /* Address family not supported by protocol family */
   #define TARGET_EADDRINUSE       48              /* Address already in use */
   #define TARGET_EADDRNOTAVAIL    49              /* Can't assign requested address */
/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50   /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52   /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54   /* Connection reset by peer */
#define TARGET_ENOBUFFS 55     /* No buffer space available */
#define TARGET_EISCONN 56      /* Socket is already connected */
#define TARGET_ENOTCONN 57     /* Socket is not connected */
#define TARGET_ESHUTDOWN 58    /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60    /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62        /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64    /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66    /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67     /* Too many processes */
#define TARGET_EUSERS 68       /* Too many users */
#define TARGET_EDQUOT 69       /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70      /* Stale NFS file handle */
#define TARGET_EREMOTE 71     /* Too many levels of remote in path */
#define TARGET_EBADRPC 72     /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77      /* No locks available */
#define TARGET_ENOSYS 78      /* Function not implemented */

#define TARGET_EFTYPE 79      /* Inappropriate file type or format */
#define TARGET_EAUTH 80       /* Authentication error */
#define TARGET_ENEEDAUTH 81   /* Need authenticator */
#define TARGET_EIPSEC 82      /* IPsec processing failure */
#define TARGET_ENOATTR 83     /* Attribute not found */
#define TARGET_EOLSEQ 84      /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85    /* No medium found */
#define TARGET_EMEDIUMTYPE 86  /* Wrong Medium Type */
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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
done
endif
include $(TOP)/make.rules

ifndef SUBDIRS
ifdef SNK_BIOSEMU_APPS
SUBDIRS += x86emu
endif

SUBDIRS= x86emu
Cleansubdirs = $(subdirs)

all :
for subdir in $(subdirs) ; do $(MAKE) -C ${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(cleansubdirs) ; do $(MAKE) -C ${subdir} $@ ; done
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 ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
 export TOP
 endif
 include $(TOP)/make.rules

ROOTDIR := ../..

LDFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -DDEBUG -m64 -I -I/include -I/include/x86emu/ \
   -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include/ \
   -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
 $(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
 $(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a
libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ ^$
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean:
/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
* System call numbers.
* 
* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NRUnmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_siggpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirententries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_leseek 199
#define TARGET_OPENBSD_NR_ftruncate 200
#define TARGET_OPENBSD_NR_truncate 201
```c
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_closefrom 271
#define TARGET_OPENBSD_NR_mlockall 272
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
```
```c
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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/* */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

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#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR_pset_bind 415
#define TARGET_NETBSD_NR__posix_fadvise50 416
```

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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
```c
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
    /* 62 is old fstat */
```
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_ioctl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312

/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/\ 322 is obsolete thr_sleep */

/\ 323 is obsolete thr_wakeup */

#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR__getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utech 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR__acl_get_file 347
#define TARGET_FREEBSD_NR__acl_set_file 348
#define TARGET_FREEBSD_NR__acl_get_fd 349
#define TARGET_FREEBSD_NR__acl_set_fd 350
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#define TARGET_FREEBSD_NR_thr_exit 428
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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Key Dates
---------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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Proposals (RFCs):
- https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html
* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for the TianoCore Contribution Agreement.

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=1373

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor’s signature identifying them by their real/legal name and their email address.

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------------------------------------------------------------------------------------------------
To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

Contributions.txt: TianoCore Contribution Agreement 1.0

= Code Contributions =
--- Start of sample patch email message ---

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

--- End of sample patch email message ---

--- Notes for sample patch email ---

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

--- Definitions for sample patch email ---

* "CodeModule" is a short identifier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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-- Wolfgang Denk

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Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
    }

    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,o+i));
    }
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x%n", target);
TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
            M.x86.R_IP = (u16)target;
+}  
+}  
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+}  
+}  
+    DECODE_CLEAR_SEGOVR();
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 REMARKS:
+Handles opcode 0xf,0xc8-0xcf
+*************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xff000000) >> 24;
+ reg |= (temp & 0xff0000) >> 8;
+ reg |= (temp & 0xff00) << 8;
+ reg |= (temp & 0xff) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+
DECODE_PRINTF("ESP\n");
M.x86.R ESP = x86emu_bswap(M.x86.R ESP);
brcase 0xcd:
DECODE_PRINTF("EBP\n");
M.x86.R EBP = x86emu_bswap(M.x86.R EBP);
brcase 0xce:
DECODE_PRINTF("ESI\n");
M.x86.R ESI = x86emu_bswap(M.x86.R ESI);
brcase 0xcf:
DECODE_PRINTF("EDI\n");
M.x86.R EDI = x86emu_bswap(M.x86.R EDI);
}
TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}@ -1702.14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
/+/* 0xc8 */ x86emuOp2_bswap,
/+/* 0xc9 */ x86emuOp2_bswap,
/+/* 0xca */ x86emuOp2_bswap,
/+/* 0xcb */ x86emuOp2_bswap,
/+/* 0xcc */ x86emuOp2_bswap,
/+/* 0xcd */ x86emuOp2_bswap,
/+/* 0xce */ x86emuOp2_bswap,
/+/* 0xcf */ x86emuOp2_bswap,
/
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -00001.1
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
     imm = (s8)fetch_byte_imm();
     DECODE_PRINTF2("PUSH\t%d
", imm);
     TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
     DECODE_CLEAR_SEGOVR();
     END_OF_INSTR();
"
@@ -1256,8 +1260,10 @@
     target = (u16)(M.x86.R_IP + (s16)offset);
     DECODE_PRINTF2("%x
", target);
     TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
         M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
     DECODE_CLEAR_SEGOVR();
     END_OF_INSTR();
"
@@ -2516,9 +2522,11 @@
     count = 1;
     if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
         /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
+        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
     }
     while (count--) {
@@ -2526,6 +2534,8 @@
         store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
         M.x86.R_SI += inc;
         M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
count = 1;

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            M.x86.R_CX -= 1;
        }
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    }
    break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if (M.x86.intr & INTR_HALTED) break;
        }
    } else {
        TRACE_AND_STEP();
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
            /* move them until CX is ZERO. */
            while (M.x86.R_CX != 0) {
                M.x86.R_CX -= 1;
                M.x86.R_ES : M.x86.R_DX) != 0) {
                    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
                - M.x86.R_CX -= 1;
                + M.x86.R_DX -= 1;
                    if (M.x86.intr & INTR_HALTED) break;
            }
        } else {
            TRACE_AND_STEP();
            if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
                /* move them until CX is ZERO. */
                while (M.x86.R_CX != 0) {
                    M.x86.R_CX -= 1;
                    M.x86.R_ES : M.x86.R_DX) != 0) {
                            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
                        - M.x86.R_CX -= 1;
                        + M.x86.R_DX -= 1;
                            if (M.x86.intr & INTR_HALTED) break;
                    }
                }
            }
        }
    }
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R(ECX) : M.x86.R_CX;
    M.x86.R_CX = 0;
}
while (count--) {
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+    break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is zero. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is zero. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R(ECX) : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +    M.x86.R_ECX -= 1;
        + else
        +    M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        + if (M.x86.intr & INTR_HALTED)
        +    break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            break;
        }
    }
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(M.x86.R_AL, val2);
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;  /* zero flag set means equal */
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
            }
            M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        }
-        M.x86.R_CX -= 1;
+        if (M.x86.intr & INTR_HALTED)
+            break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPE) {

+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : M.x86.R_CX) != 0) { 
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+     val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+     cmp_long(M.x86.R_EAX, val);
+   }
+   if (M.x86.mode & SYSMODE_PREFIX_REP)
+     M.x86.R_CX = 1;
+   else
+     M.x86.R_CX = 1;
+     M.x86.R_DI += inc;
+     if (ACCESS_FLAG(F_ZF))
+       break;          /* zero flag set means equal */
+     if (M.x86.intr & INTR_HALTED)
+       break;
+   }
+   M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+ } else {
+   DECODE_PRINTF("RET\n");
+   imm = fetch_word_imm();
+   DECODE_PRINTF2("%x\n", imm);
+   RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
+   TRACE_AND_STEP();
+   M.x86.R_IP = pop_word();
+   RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
+   M.x86.R_SP += imm;
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+   DECODE_PRINTF("RETF\n");
+   imm = fetch_word_imm();
+   DECODE_PRINTF2("%x\n", imm);
+   RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+   TRACE_AND_STEP();
+   M.x86.R_IP = pop_word();
+   RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+ }
+ DECODE_PRINTF("RETF\n");
+ imm = fetch_word_imm();
+ DECODE_PRINTF2("%x\n", imm);
+ RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
      M.x86.R_ECX -= 1;
+    else
+      M.x86.R_CX -= 1;
    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
      M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
      M.x86.R_IP = target;
      JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:\", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
      break;
      case 4: /* jmp word ptr ... */
      destval = fetch_data_word(destoffset);
+     JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
      TRACE_AND_STEP();
      M.x86.R_IP = destval;
      break;
      case 5: /* jmp far ptr ... */
      destval = fetch_data_word(destoffset);
      destval2 = fetch_data_word(destoffset + 2);
+     JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
      TRACE_AND_STEP();
      M.x86.R_IP = destval;
      M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c7 Sep 2007 10:01:21 -00001.1
+++ prim_ops.c16 Jan 2008 14:18:15 -00001.3
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
  #ifdef __HAS_LONG_LONG__
- s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);

void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
    - u64 res = (u32)M.x86.R_EAX * (u32)s;
    + u64 res = (u64)M.x86.R_EAX * s;
    
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* in until CX is ZERO. */
        - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
          + /* in until (E)CX is ZERO. */
          + u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
        
        while (count--) {
            single_in(size);
            M.x86.R_DI += inc;
        }
        M.x86.R_CX = 0;
    - if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    + if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    @ @ -2355,15 +2354,15 @ @
    }
    
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* out until CX is ZERO. */
        - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
          + /* out until (E)CX is ZERO. */
          + u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
        
        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

--- sys.c7 Sep 2007 10:01:21 -00001.1
+++ sys.c7 Sep 2007 10:03:13 -00001.2
@@ -45,11 +45,6 @@
 #include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#elif IN_MODULE
  #include "xf86_ansic.h"
  @@ -220,7 +215,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inb %#04x \n", addr);
-  return inb(addr);
+  return 0;
  }

/**************************************************************************
@@ -235,7 +230,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inw %#04x \n", addr);
-  return inw(addr);
+  return 0;
  }

/**************************************************************************
@@ -250,7 +245,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inl %#04x \n", addr);
-  return inl(addr);
+  return 0;
  }

/**************************************************************************
@@ -265,7 +260,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inb %#04x \n", addr);
-  return inb(addr);
+  return 0;
  }

/**************************************************************************
@@ -280,7 +275,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inw %#04x \n", addr);
-  return inw(addr);
+  return 0;
  }

/**************************************************************************
@@ -295,7 +290,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inl %#04x \n", addr);
-  return inl(addr);
+  return 0;
  }

/**************************************************************************
@@ -310,7 +305,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inb %#04x \n", addr);
-  return inb(addr);
+  return 0;
  }

/**************************************************************************
@@ -325,7 +320,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inw %#04x \n", addr);
-  return inw(addr);
+  return 0;
  }

/**************************************************************************
@@ -340,7 +335,7 @@
  }
  DB(if (DEBUG_IO_TRACE()))
  printk("inl %#04x \n", addr);
-  return inl(addr);
+  return 0;
  }
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@
    M.mem_base = (int) base;
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
@@ -264,7 +259,6 @@
    {
        DB(if (DEBUG_IO_TRACE())
            printk("outb %#02x -> %#04x \n", val, addr);
-        outb(val, addr);
        return;
    }

@@ -279,7 +273,6 @@
    {
        DB(if (DEBUG_IO_TRACE())
            printk("outw %#04x -> %#04x \n", val, addr);
-        outw(val, addr);
        return;
    }

@@ -295,7 +288,6 @@
    {
        DB(if (DEBUG_IO_TRACE())
            printk("outl %#08x -> %#04x \n", val, addr);
-        outl(val, addr);
        return;
    }

@@ -405,6 +397,6 @@

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-/#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        	(M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     	(M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           	(M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     	(M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      	(M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        	0
# define DEBUG_TRACECALL()     	0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP()       0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           	0
# define DEBUG_MEM_TRACE()     	0
# define DEBUG_IO_TRACE()      	0
@@ -169,14 +171,20 @@
     \ x86emu_dump_regs();                                     \
     if (DEBUG_TRACECALL())                                     	\  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                                    \       
+# define RETURN_TRACE(u,v,w,x,s)                                    \       
     if (DEBUG_TRACECALLREGS())									\       
     x86emu_dump_regs();                                     \
     if (DEBUG_TRACECALL())                                     \
     \ -printk("%04x:%04x: %s\n",u,v,n);
+printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)                                 \       
+    if (DEBUG_TRACEJMPREGS()) \       
+    \ x86emu_dump_regs();\ 
+    \ if (DEBUG_TRACEJMP())\ 
+    \  printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS | SYSMODE_SEGOVR_SS | SYSMODE_PREFIX_DATA |
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_DATA |
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
*/
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#ifdef DEBUG
-int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS | SYSMODE_SEGOVR_SS | SYSMODE_PREFIX_DATA |
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_DATA |
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
*/
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#ifdef DEBUG
-int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
```c
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+ #include <stdio.h>
+ #define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+ #define DEBUG_TRACEJMP_F        0x020000
+ #define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#endif __cplusplus
}                       /* End of “C” linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
#*************************************************************************/
# * Copyright (c) 2004, 2008 IBM Corporation
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# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
# *************************************************************************/
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
```
if [ ! -x $PATCH ]; then
    echo "patch executable not found!"
    exit -1
fi
if [ ! -r $DIFF_FILE ]; then
    echo "diff file $DIFF_FILE not found!"
    exit -1
fi

# download the x86emu sources from LinuxBIOS subversion
#revision known to work...
REV=496
echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV
echo "Copying files..."
mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu
echo "Removing checkedout subversion director..."
rm -rf x86emu
echo "Patching files..."
$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0
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History
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Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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e) Verify that the user has already received a copy of these
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-- Wolfgang Denk

Like many other projects, U-Boot has a tradition of including big blocks of License headers in all files. This not only blows up the source code with mostly redundant information, but also makes it very difficult to generate License Clearing Reports. An additional problem is that even the same licenses are referred to by a number of slightly varying text blocks (full, abbreviated, different indentation, line wrapping and/or white space, with obsolete address information, ...) which makes automatic processing a nightmare.
To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1].

If a "SPDX-License-Identifier:" line references more than one Unique License Identifier, then this means that the respective file can be used under the terms of either of these licenses, i.e. with

```
SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause
```

you can choose between GPL-2.0+ and BSD-3-Clause licensing.

We use the SPDX Unique License Identifiers here; these are available at [2].

License identifier syntax
-------------------------

1. Placement:

The SPDX license identifier in U-Boot files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the `#!PATH_TO_INTERPRETER` in the first line. For those scripts the SPDX identifier goes into the second line.

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type:

```
C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.imports: // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the `"\*\*/` style comment in C header files. There was build breakage observed with generated .lds files where `ld` failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.
3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression.:

// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note

Other examples using WITH exceptions found in the linux kernel are:

// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

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Examples from U-Boot for license expressions in dual licensed files::

// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in U-Boot, but the original license terms need to remain in effect::


Another other example where both sets of license terms need to be adhered to is:

// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+


Full name	SPDX Identifier	OSI Approved	File name	URI

GNU General Public License v2.0 only	GPL-2.0	Y
gpl-2.0.txt
GNU General Public License v2.0 or later	GPL-2.0+	Y
gpl-2.0.txt
GNU Library General Public License v2 or later	LGPL-2.0+	Y
lgpl-2.0.txt
GNU Lesser General Public License v2.1 or later	LGPL-2.1+	Y
lgpl-2.1.txt
eCos license version 2.0	ECOS-2.0
eCos-2.0.txt
BSD 2-Clause License	BSD-2-Clause	Y
bsd-2-clause.txt
BSD 3-clause "New" or "Revised" License	BSD-3-Clause	Y
bsd-3-clause.txt
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ISC License	ISC	ISC
SIL OPEN FONT LICENSE (OFL-1.1)
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The resultant applicable licence(s) for any particular build can be determined by using "make bin/xxxxxxx.yyy.licence"; for example:

make bin/rtl8139.rom.licence

to determine the resultant licence(s) for the build bin/rtl8139.rom

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.6.5 2.6.4 2010  PSF  yes
2.7 2.6 2010  PSF  yes

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History
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1.3051 libuser 0.60-7.el7_1
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1.3052 net-snmp 5.7.2-49.el7

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org.eclipse.jetty.toolchain:jetty-schemas

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/($*)/o: /g" > $@; \n[ -s $@ ] || rm -f $@' %d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/($*)/o: /g" > $@; \n[ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymblic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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from distutils.core import setup

long_description = ""
ntplib - Python NTP library
================================

Description
----------

This module offers a simple interface to query NTP servers from Python.
It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it’s pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

Example
-------

>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
Sun May 17 09:32:48 2009
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66

Installation
------------

As root::

    # python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g.

    /usr/lib/python2.5/.

setup(name='ntplib',
    version='0.3.3',
    description='Python NTP library',
    author='Charles-Francois Natali',
    author_email='cf.natali@gmail.com',
    url='http://code.google.com/p/ntplib/',
    py_modules=['ntplib'],
    license='MIT',
    classifiers=[
        'License :: OSI Approved :: MIT License',
        'Programming Language :: Python',]
Operating System :: OS Independent,
Topic :: System :: Networking :: Time Synchronization

long_description=long_description

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version 0.3.3 - 2015-07-27
------------------------
- Change to more permissive MIT license

version 0.3.2 - 2014-02-02
------------------------
- PEP8 cleanup
- Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
------------------------
- cleanup
- update FSF address

version 0.3.0 - 2012-09-01
------------------------
- add a ‘timeout’ parameter to NTPClient.request()
- rewrite tests using the unittest module, add many tests
- cleanup

version 0.2.0 - 2012-04-01
------------------------
- cleanup
- raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20
- change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24
- cleanup
- fix delay computation (thanks to Michael Freire for pointing that out)

version 0.1.6 - 2009-11-01
- cleanup
- when the server doesn't respond within a reasonable interval, let the application handle socket.timeout

version 0.1.5 - 2009-07-13
- perform stricter source check upon reception of a response
- small cleanup

version 0.1.4 - 2009-06-04
- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18
- fix root delay and root dispersion computation

version 0.1.2 - 2009-05-17
- create request packet after name resolution to avoid name resolution delay

version 0.1.1 - 2009-05-16
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a NTPException instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
- initial release

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Description
-----------

This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it's pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

Example
-------

```python
>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66
```

Installation
-------------

As root::

```
# python setup.py install
```
or just copy ntplib.py inside a directory in your sys.path, e.g.
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Classifier: Programming Language :: Python
Classifier: Operating System :: OS Independent
Classifier: Topic :: System :: Networking :: Time Synchronization

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1.3068 attr 2.4.44 7.el6

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
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  20141113/org/json/CookieList.java
* /opt/cola/permits/1003295350_1633135291.83/0/json-java-20141113-tar-gz/json-java-
  20141113/org/json/CDL.java
* /opt/cola/permits/1003295350_1633135291.83/0/json-java-20141113-tar-gz/json-java-
  20141113/org/json/JSONTokener.java
* /opt/cola/permits/1003295350_1633135291.83/0/json-java-20141113-tar-gz/json-java-
  20141113/org/json/XML.java
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1.3090 python-ipy 0.75 6.el7

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1.3091 openscap 1.2.17 2.el7
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/CookieUtil.java
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* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/ServerCookieEncoder.java
* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/DefaultCookie.java
* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/ClientCookieEncoder.java
* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/package-info.java
* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/ClientCookieDecoder.java
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* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/CookieHeaderNames.java
* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-jar/play/core/netty/utils/ServerCookieDecoder.java
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* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-
  jar/play/core/netty/utils/HttpConstants.java
* /opt/cola/permits/1138241888_1614277597.49/0/play-netty-utils-2-6-15-sources-1-
  jar/play/core/netty/utils/HttpHeaderDateFormat.java

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Protocol Buffers for Go with Gadgets

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.3122 vim 7.4.160 1.el7
1.3122.1 Available under license:
*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as
mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
   - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
   - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
   - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the "":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.
Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================

Kibaale Children's Centre*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is
also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is
visited about once a year to check the progress (at our own cost). I have
visited the centre myself many times, starting in 1993. The visit reports are
on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
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1.3123 mariadb 5.5.68-1.el7
1.3123.1 Available under license :

== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian
Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and
are now managed by the MariaDB development team,
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
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- hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js
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ehadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js.gz
```

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```shell
```

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```shell
ehadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3-LICENSE
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HSQLDB Database 2.0.0
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1.3135 libsepol 2.5 10.el7

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
  jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
  jar/org/objectweb/asm/tree/analysis/package.html
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jar/org/objectweb/asm/xml/SAXAdapter.java
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jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/ASMContentHandler.java
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jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 *     the <code>MethodVisitor</code> to send the resulting inlined
 *     method code to (use <code>null</code> for none).
 * @param access
 *     the method's access flags (see { @link Opcodes}). This
 *     parameter also indicates if the method is synthetic and/or
 *     deprecated.
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see { @link Type}).
 * @param signature
 *     the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *     the internal names of the method's exception classes (see
 *     { @link Type#getInternalName() getInternalName }). May be
 *     <tt>null</tt>.
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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/**
* Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
* *
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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*/
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link ClassNode(int)]
/**
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 */

/*
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *            the owner's class name.
 * @param access
 *            the method's access flags (see {@link Opcodes}).
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see {@link Type Type}).
 * @param mv
 *            the method visitor to which this adapter delegates calls. May
 *            be <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/*
 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
 * Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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* hmac.c is derived from:

Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
UCSD
    R. Canetti
IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source,
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1.3149 sqlx 1.2.0

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1.3150 jackson-datatype-jdk8 2.10.3

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Name: pep8
Version: 1.7.0
Summary: Python style guide checker
Home-page: http://pep8.readthedocs.org/
Author: Johann C. Rocholl
Author-email: johann@rocholl.net
License: Expat license
Description: pep8 - Python style guide checker

=================================

pep8 is a tool to check your Python code against some of the style
conventions in `PEP 8`

.. _PEP 8: http://www.python.org/dev/peps/pep-0008/

Features
--------

* Plugin architecture: Adding new checks is easy.

* Parseable output: Jump to error location in your editor.

* Small: Just one Python file, requires only stdlib. You can use just
  the pep8.py file for this purpose.

* Comes with a comprehensive test suite.

Installation
-----------

You can install, upgrade, uninstall pep8.py with these commands::

$ pip install pep8
$ pip install --upgrade pep8
$ pip uninstall pep8
There's also a package for Debian/Ubuntu, but it's not always the latest version.

Example usage and output
------------------------

::

$ pep8 --first optparse.py
optparse.py:69:11: E401 multiple imports on one line
optparse.py:77:1: E302 expected 2 blank lines, found 1
optparse.py:88:5: E301 expected 1 blank line, found 0
optparse.py:222:34: W602 deprecated form of raising exception
optparse.py:347:31: E211 whitespace before '('
optparse.py:357:17: E201 whitespace after '}'
optparse.py:472:29: E221 multiple spaces before operator
optparse.py:544:21: W601 .has_key() is deprecated, use 'in'

You can also make pep8.py show the source code for each error, and even the relevant text from PEP 8::

$ pep8 --show-source --show-pep8 testsuite/E40.py
testsuite/E40.py:2:10: E401 multiple imports on one line
   import os, sys
   ^
Imports should usually be on separate lines.

   Okay: import os
   ^
   import sys

Or you can display how often each error was found::

$ pep8 --statistics -qq Python-2.5/Lib
   232   E201 whitespace after ']'  
   599   E202 whitespace before ')'  
   631   E203 whitespace before ','  
   842   E211 whitespace before '('  
  2531   E221 multiple spaces before operator
  4473   E301 expected 1 blank line, found 0
  4006   E302 expected 2 blank lines, found 1
   165   E303 too many blank lines (4)
   325   E401 multiple imports on one line
  3615   E501 line too long (82 characters)
   612   W601 .has_key() is deprecated, use 'in'
  1188   W602 deprecated form of raising exception

Links
Changelog
==========

1.7.0 (2016-01-12)
------------------

Announcements:

* Repository moved to PyCQA Organization on GitHub:
  https://github.com/pycqa/pep8

Changes:

* Reverted the fix in #368, "options passed on command line are only ones accepted" feature. This has many unintended consequences in pep8 and flake8 and needs to be reworked when I have more time.
* Added support for Python 3.5. (Issue #420 & #459)
* Added support for multi-line config_file option parsing. (Issue #429)
* Improved parameter parsing. (Issues #420 & #456)

Bugs:

* Fixed BytesWarning on Python 3. (Issue #459)

1.6.2 (2015-02-15)
------------------

Changes:

* Added check for breaking around a binary operator. (Issue #197, Pull #305)

Bugs:
* Restored config_file parameter in process_options(). (Issue #380)

1.6.1 (2015-02-08)
------------------

Changes:

* Assign variables before referenced. (Issue #287)

Bugs:

* Exception thrown due to unassigned `local_dir` variable. (Issue #377)

1.6.0 (2015-02-06)
------------------

News:

* Ian Lee <ianlee1521@gmail.com> joined the project as a maintainer.

Changes:

* Report E731 for lambda assignment. (Issue #277)

  Do not report this error in the default configuration. (Issue #277)

* Replace codes E111, E112 and E113 with codes E114, E115 and E116
  for bad indentation of comments. (Issue #274)

* Report E266 instead of E265 when the block comment starts with multiple `#`.
  (Issue #270)

* Report E402 for import statements not at the top of the file. (Issue #264)

* Do not enforce whitespaces around `**` operator. (Issue #292)

* Strip whitespace from around paths during normalization. (Issue #339 / #343)

* Update `--format` documentation. (Issue #198 / Pull Request #310)

* Add `*.tox/*` to default excludes. (Issue #335)

* Do not report E121 or E126 in the default configuration. (Issues #256 / #316)
* Allow spaces around the equals sign in an annotated function. (Issue #357)

* Allow trailing backslash if in an inline comment. (Issue #374)

* If `--config` is used, only that configuration is processed. Otherwise, merge the user and local configurations are merged. (Issue #368 / #369)

Bug fixes:

* Don't crash if Checker.build_tokens_line() returns None. (Issue #306)

* Don't crash if os.path.expanduser() throws an ImportError. (Issue #297)

* Missing space around keyword parameter equal not always reported, E251. (Issue #323)

* Fix false positive E711/E712/E713. (Issues #330 and #336)

* Do not skip physical checks if the newline is escaped. (Issue #319)

* Flush sys.stdout to avoid race conditions with printing. See flake8 bug: https://gitlab.com/pycqa/flake8/issues/17 for more details. (Issue #363)

1.5.7 (2014-05-29)
------------------

Bug fixes:

* Skip the traceback on "Broken pipe" signal. (Issue #275)

* Do not exit when an option in ```setup.cfg`` or ```tox.ini``` is not recognized.

* Check the last line even if it does not end with a newline. (Issue #286)

* Always open files in universal newlines mode in Python 2. (Issue #288)

1.5.6 (2014-04-14)
------------------

Bug fixes:

* Check the last line even if it has no end-of-line. (Issue #273)

1.5.5 (2014-04-10)
Bug fixes:

* Fix regression with E22 checks and inline comments. (Issue #271)

1.5.4 (2014-04-07)

Bug fixes:

* Fix negative offset with E303 before a multi-line docstring. (Issue #269)

1.5.3 (2014-04-04)

Bug fixes:

* Fix wrong offset computation when error is on the last char of a physical line. (Issue #268)

1.5.2 (2014-04-04)

Changes:

* Distribute a universal wheel file.

Bug fixes:

* Report correct line number for E303 with comments. (Issue #60)

* Do not allow newline after parameter equal. (Issue #252)

* Fix line number reported for multi-line strings. (Issue #220)

* Fix false positive E121/E126 with multi-line strings. (Issue #265)

* Fix E501 not detected in comments with Python 2.5.

* Fix caret position with `--show-source` when line contains tabs.

1.5.1 (2014-03-27)
Bug fixes:

* Fix a crash with E125 on multi-line strings. (Issue #263)

1.5 (2014-03-26)

Changes:

* Report E129 instead of E125 for visually indented line with same indent as next logical line. (Issue #126)

* Report E265 for space before block comment. (Issue #190)

* Report E713 and E714 when operators `not in` and `is not` are recommended. (Issue #236)

* Allow long lines in multiline strings and comments if they cannot be wrapped. (Issue #224).

* Optionally disable physical line checks inside multiline strings, using `# noqa`. (Issue #242)

* Change text for E121 to report "continuation line under-indented for hanging indent" instead of indentation not being a multiple of 4.

* Report E131 instead of E121 / E126 if the hanging indent is not consistent within the same continuation block. It helps when error E121 or E126 is in the `ignore` list.

* Report E126 instead of E121 when the continuation line is hanging with extra indentation, even if indentation is not a multiple of 4.

Bug fixes:

* Allow the checkers to report errors on empty files. (Issue #240)

* Fix ignoring too many checks when `--select` is used with codes declared in a flake8 extension. (Issue #216)

* Fix regression with multiple brackets. (Issue #214)

* Fix `StyleGuide` to parse the local configuration if the keyword argument `paths` is specified. (Issue #246)
* Fix a false positive E124 for hanging indent. (Issue #254)

* Fix a false positive E126 with embedded colon. (Issue #144)

* Fix a false positive E126 when indenting with tabs. (Issue #204)

* Fix behaviour when `exclude` is in the configuration file and the current directory is not the project directory. (Issue #247)

* The logical checks can return `'None` instead of an empty iterator. (Issue #250)

* Do not report multiple E101 if only the first indentation starts with a tab. (Issue #237)

* Fix a rare false positive W602. (Issue #34)

1.4.6 (2013-07-02)

Changes:

* Honor `# noqa` for errors E711 and E712. (Issue #180)

* When both a `tox.ini` and a `setup.cfg` are present in the project directory, merge their contents. The `tox.ini` file takes precedence (same as before). (Issue #182)

* Give priority to `--select` over `--ignore`. (Issue #188)

* Compare full path when excluding a file. (Issue #186)

* New option `--hang-closing` to switch to the alternative style of closing bracket indentation for hanging indent. Add error E133 for closing bracket which is missing indentation. (Issue #103)

* Accept both styles of closing bracket indentation for hanging indent. Do not report error E123 in the default configuration. (Issue #103)

Bug fixes:

* Do not crash when running AST checks and the document contains null bytes. (Issue #184)

* Correctly report other E12 errors when E123 is ignored. (Issue #103)
* Fix false positive E261/E262 when the file contains a BOM. (Issue #193)

* Fix E701, E702 and E703 not detected sometimes. (Issue #196)

* Fix E122 not detected in some cases. (Issue #201 and #208)

* Fix false positive E121 with multiple brackets. (Issue #203)

1.4.5 (2013-03-06)
------------------

* When no path is specified, do not try to read from stdin. The feature was added in 1.4.3, but it is not supported on Windows. Use ```-``` filename argument to read from stdin. This usage is supported since 1.3.4. (Issue #170)

* Do not require ```setuptools``` in setup.py. It works around an issue with ```pip``` and Python 3. (Issue #172)

* Add ```__pycache__``` to the ignore list.

* Change misleading message for E251. (Issue #171)

* Do not report false E302 when the source file has a coding cookie or a comment on the first line. (Issue #174)

* Reorganize the tests and add tests for the API and for the command line usage and options. (Issues #161 and #162)

* Ignore all checks which are not explicitly selected when ```select``` is passed to the ```StyleGuide``` constructor.

1.4.4 (2013-02-24)
------------------

* Report E227 or E228 instead of E225 for whitespace around bitwise, shift or modulo operators. (Issue #166)

* Change the message for E226 to make clear that it is about arithmetic operators.

* Fix a false positive E128 for continuation line indentation with tabs.

* Fix regression with the ```--diff``` option. (Issue #169)

* Fix the ```TestReport``` class to print the unexpected warnings and
1.4.3 (2013-02-22)

* Hide the `--doctest` and `--testsuite` options when installed.

* Fix crash with AST checkers when the syntax is invalid. (Issue #160)

* Read from standard input if no path is specified.

* Initiate a graceful shutdown on `Control+C`.

* Allow to change the `checker_class` for the `StyleGuide`.

1.4.2 (2013-02-10)

* Support AST checkers provided by third-party applications.

* Register new checkers with `register_check(func_or_cls, codes)`.

* Allow to construct a `StyleGuide` with a custom parser.

* Accept visual indentation without parenthesis after the `if` statement. (Issue #151)

* Fix UnboundLocalError when using `# noqa` with continued lines. (Issue #158)

* Re-order the lines for the `StandardReport`.

* Expand tabs when checking E12 continuation lines. (Issue #155)

* Refactor the testing class `TestReport` and the specific test functions into a separate test module.

1.4.1 (2013-01-18)

* Allow sphinx.ext.autodoc syntax for comments. (Issue #110)

* Report E703 instead of E702 for the trailing semicolon. (Issue #117)

* Honor `# noqa` in addition to `# nopep8`. (Issue #149)
* Expose the ``OptionParser`` factory for better extensibility.

1.4 (2012-12-22)
----------------

* Report E226 instead of E225 for optional whitespace around common operators (``*``, ``**``, ``/``, ``+`` and ``-``). This new error code is ignored in the default configuration because PEP 8 recommends to "use your own judgement". (Issue #96)

* Lines with a ``# nopep8`` at the end will not issue errors on line length E501 or continuation line indentation E12*. (Issue #27)

* Fix AssertionError when the source file contains an invalid line ending `"\n\r\n"`. (Issue #119)

* Read the ``[pep8]`` section of ``tox.ini`` or ``setup.cfg`` if present. (Issue #93 and #141)

* Add the Sphinx-based documentation, and publish it on http://pep8.readthedocs.org/. (Issue #105)

1.3.4 (2012-12-18)
------------------

* Fix false positive E124 and E128 with comments. (Issue #100)

* Fix error on stdin when running with bpython. (Issue #101)

* Fix false positive E401. (Issue #104)

* Report E231 for nested dictionary in list. (Issue #142)

* Catch E271 at the beginning of the line. (Issue #133)

* Fix false positive E126 for multi-line comments. (Issue #138)

* Fix false positive E221 when operator is preceded by a comma. (Issue #135)

* Fix ``--diff`` failing on one-line hunk. (Issue #137)

* Fix the ``--exclude`` switch for directory paths. (Issue #111)

* Use ``-`` filename to read from standard input. (Issue #128)
1.3.3 (2012-06-27)
------------------

* Fix regression with continuation line checker. (Issue #98)

1.3.2 (2012-06-26)
------------------

* Revert to the previous behaviour for `--show-pep8`: do not imply `--first`. (Issue #89)

* Add E902 for IO errors. (Issue #87)

* Fix false positive for E121, and missed E124. (Issue #92)

* Set a sensible default path for config file on Windows. (Issue #95)

* Allow `verbose` in the configuration file. (Issue #91)

* Show the enforced `max-line-length` in the error message. (Issue #86)

1.3.1 (2012-06-18)
------------------

* Explain which configuration options are expected. Accept and recommend the options names with hyphen instead of underscore. (Issue #82)

* Do not read the user configuration when used as a module (except if `config_file=True` is passed to the `StyleGuide` constructor).

* Fix wrong or missing cases for the E12 series.

* Fix cases where E122 was missed. (Issue #81)

1.3 (2012-06-15)
-----------------

.. warning::
The internal API is backwards incompatible.

* Remove global configuration and refactor the library around a `StyleGuide` class; add the ability to configure various reporters. (Issue #35 and #66)
* Read user configuration from `~/.config/pep8` and local configuration from `./.pep8`. (Issue #22)

* Fix E502 for backslash embedded in multi-line string. (Issue #68)

* Fix E225 for Python 3 iterable unpacking (PEP 3132). (Issue #72)

* Enable the new checkers from the E12 series in the default configuration.

* Suggest less error-prone alternatives for E712 errors.

* Rewrite checkers to run faster (E22, E251, E27).

* Fixed a crash when parsed code is invalid (too many closing brackets).

* Fix E127 and E128 for continuation line indentation. (Issue #74)

* New option `--format` to customize the error format. (Issue #23)

* New option `--diff` to check only modified code. The unified diff is read from STDIN. Example: `hg diff | pep8 --diff` (Issue #39)

* Correctly report the count of failures and set the exit code to 1 when the `--doctest` or the `--testsuite` fails.

* Correctly detect the encoding in Python 3. (Issue #69)

* Drop support for Python 2.3, 2.4 and 3.0. (Issue #78)

1.2 (2012-06-01)

* Add E121 through E128 for continuation line indentation. These checks are disabled by default. If you want to force all checks, use switch `--select=E,W`. Patch by Sam Vilain. (Issue #64)

* Add E721 for direct type comparisons. (Issue #47)

* Add E711 and E712 for comparisons to singletons. (Issue #46)

* Fix spurious E225 and E701 for function annotations. (Issue #29)

* Add E502 for explicit line join between brackets.
* Fix E901 when printing source with `--show-source`.

* Report all errors for each checker, instead of reporting only the first occurrence for each line.

* Option `--show-pep8` implies `--first`.

1.1 (2012-05-24)
----------------

* Add E901 for syntax errors. (Issues #63 and #30)

* Add E271, E272, E273 and E274 for extraneous whitespace around keywords. (Issue #57)

* Add `tox.ini` configuration file for tests. (Issue #61)

* Add `.travis.yml` configuration file for continuous integration. (Issue #62)

1.0.1 (2012-04-06)
--------------------

* Fix inconsistent version numbers.

1.0 (2012-04-04)
-----------------

* Fix W602 `raise` to handle multi-char names. (Issue #53)

0.7.0 (2012-03-26)
-------------------

* Now `--first` prints only the first occurrence of each error. The `--repeat` flag becomes obsolete because it is the default behaviour. (Issue #6)

* Allow to specify `--max-line-length`. (Issue #36)

* Make the shebang more flexible. (Issue #26)

* Add testsuite to the bundle. (Issue #25)

* Fixes for Jython. (Issue #49)
* Add PyPI classifiers. (Issue #43)

* Fix the `--exclude` option. (Issue #48)

* Fix W602, accept `raise` with 3 arguments. (Issue #34)

* Correctly select all tests if `DEFAULT_IGNORE == ''`.

0.6.1 (2010-10-03)
------------------

* Fix inconsistent version numbers. (Issue #21)

0.6.0 (2010-09-19)
------------------

* Test suite reorganized and enhanced in order to check more failures with fewer test files. Read the `run_tests` docstring for details about the syntax.

* Fix E225: accept `print >>sys.stderr, "..."` syntax.

* Fix E501 for lines containing multibyte encoded characters. (Issue #7)

* Fix E221, E222, E223, E224 not detected in some cases. (Issue #16)

* Fix E211 to reject `v = dic['a'] ['b']`. (Issue #17)

* Exit code is always 1 if any error or warning is found. (Issue #10)

* `--ignore` checks are now really ignored, especially in conjunction with `--count`. (Issue #8)

* Blank lines with spaces yield W293 instead of W291: some developers want to ignore this warning and indent the blank lines to paste their code easily in the Python interpreter.

* Fix E301: do not require a blank line before an indented block. (Issue #14)

* Fix E203 to accept NumPy slice notation `a[0, :]`. (Issue #13)

* Performance improvements.

* Fix decoding and checking non-UTF8 files in Python 3.
* Fix E225: reject `'True+False'` when running on Python 3.

* Fix an exception when the line starts with an operator.

* Allow a new line before closing `)``, `}`` or `]` `. (Issue #5)

0.5.0 (2010-02-17)
------------------

* Changed the `--count` switch to print to sys.stderr and set exit code to 1 if any error or warning is found.

* E241 and E242 are removed from the standard checks. If you want to include these checks, use switch `--select=E,W`. (Issue #4)

* Blank line is not mandatory before the first class method or nested function definition, even if there's a docstring. (Issue #1)

* Add the switch `--version`.

* Fix decoding errors with Python 3. (Issue #13 [1]_)

* Add `--select` option which is mirror of `--ignore`.

* Add checks E261 and E262 for spaces before inline comments.

* New check W604 warns about deprecated usage of backticks.

* New check W603 warns about the deprecated operator `<>`.

* Performance improvement, due to rewriting of E225.

* E225 now accepts:
  - no whitespace after unary operator or similar. (Issue #9 [1]_)
  - lambda function with argument unpacking or keyword defaults.

* Reserve "2 blank lines" for module-level logical blocks. (E303)

* Allow multi-line comments. (E302, issue #10 [1]_)

0.4.2 (2009-10-22)
------------------

* Decorators on classes and class methods are OK now.
0.4 (2009-10-20)
-----------------

* Support for all versions of Python from 2.3 to 3.1.

* New and greatly expanded self tests.

* Added `--count` option to print the total number of errors and warnings.

* Further improvements to the handling of comments and blank lines.
  (Issue #1 [1] and others changes.)

* Check all py files in directory when passed a directory (Issue #2 [1]). This also prevents an exception when traversing directories with non `*.py` files.

* E231 should allow commas to be followed by `)``. (Issue #3 [1])

* Spaces are no longer required around the equals sign for keyword arguments or default parameter values.

.. [1] These issues refer to the `previous issue tracker`__.

.. __: http://github.com/cburroughs/pep8.py/issues

0.3.1 (2009-09-14)
-------------------

* Fixes for comments: do not count them when checking for blank lines between items.

* Added setup.py for pypi upload and easy_installability.

0.2 (2007-10-16)
----------------

* Loads of fixes and improvements.

0.1 (2006-10-01)
----------------

* First release.
Keywords: pep8
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1177346040_1625136106.91/0/pep8-1-7-0-1.tar.gz/pep8-1.7.0/pep8.egg-info/PKG-INFO
* /opt/cola/permits/1177346040_1625136106.91/0/pep8-1-7-0-1.tar.gz/pep8-1.7.0/PKG-INFO
No license file was found, but licenses were detected in source scan.

'Llicense :: OSI Approved :: MIT License',

Found in path(s):
* /opt/cola/permits/1177346040_1625136106.91/0/pep8-1-7-0-1.tar.gz/pep8-1.7.0/setup.py

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1.3156 cryptography 3.3.2
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1.3157 jersey-guava 2.22.2

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* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingFuture.java
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jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/reflect/TypeToken.java

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/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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  jar/jersey/repackaged/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
  jar/jersey/repackaged/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
  jar/jersey/repackaged/com/google/common/escape/UnicodeEscaper.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/primitives/Doubles.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/HashBasedTable.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/primitives/Longs.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/StandardTable.java

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jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
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jar/jersey/repackaged/com/google/common/collection/GeneralRange.java
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jar/jersey/repackaged/com/google/common/primitives/ImmutableSortedMultiset.java
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jar/jersey/repackaged/com/google/common/primitives/ImmutableSortedMultisetFauxverideShim.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Found in path(s):
* /opt/cola/permits/1011902580_1614291641.04/0/aop-alliance-2-5-0-b30-tar-gz/aop-alliance-2.5.0-b30/pom.xml

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPRINTS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec `$(GEN_DEPS.c) $< \
| sed \"s/(\$\()\$/\$\$1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@' 
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec `$(GEN_DEPS.cc) $< \
| sed \"s/(\$\()\$/\$\$1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@' 

## Versioned libraries rules
%.$($SO).$(SO_TARGET_VERSION_MAJOR): %.$($SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $[<F]$@ 
%.$($SO): %.($SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $[>F].($SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

### 1.3170 visual-studio-runtime 12.00.21005.1

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1.3173 atk 2.24.2-1.el7

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1.3179 python-setuptools 39.2.0

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Julian Seward, jseward@bzip.org
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abstract: 'Build and install Perl modules'
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 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
built_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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The End

#!perl

=head1 NAME

copyright.t
Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, "perl -v copyright includes current year";
    is $readme_year, $current_year, "README copyright includes current year";
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, "README and perl -v copyright dates match";
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b(\d+).*$/
or die "Year not found in README copyright message '$_copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987\b(\d+).*$/
or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.3185 perl-env 1.04 2.el7

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1.3189 six 1.10.0

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.3199 binutils 2.20.51
1.3199.1 Available under license :
(This file is under construction.)*- text -*.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

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++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbdf) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Open Source Used In Secure Workload 3.6.1.1 37027
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You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

Appendix 2: Special exception concerning PLPA

In the following exception, "PLPA" means (i) code released by the
Portable Linux Processor Affinity Project, or (ii) derivative works of
such code, in both cases provided that the code is covered entirely by
free software licensing terms.

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combined work following the terms of the GNU GPL for htop and the applicable licenses of the version of PLPA used in your combined work, provided that you include the source code of such version of PLPA when and as the GNU GPL requires distribution of source code.

1.3209 tcp-dump 4.9.2
1.3209.1 Available under license:
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1.3210 vim 7.4.629-8.el7_9
1.3210.1 Available under license:
*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iicf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
   1) This license text must be included unmodified.
   2) The modified Vim must be distributed in one of the following five ways:
      a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
      b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
      c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*Kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted.
For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I’m raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information: http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about
Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterrueihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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(XPM - X PixMap format version 2 & 3)
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Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.3211 perl-extutils-makemaker 6.68 3.el7

1.3212 berkeley-db 5.3.21-19.el7

1.3212.1 Available under license :

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It was downloaded from <http://www.ch-werner.de/sqliteodbc/>.

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1.3213 gzip 1.5-10.el7

1.3214 hadoop-auth 2.2.0

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn’t collide with any other library.

krb4
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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn [josefsson.org/libidn/](http://josefsson.org/libidn/)

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libssh2 [www.libssh2.org/](http://www.libssh2.org/)

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1.3220 pkg-config 1.4.6

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1.3221 commons-crypto 1.0.0

1.3222 perl-test-harness 3.28 3.el7

1.3223 createrepo 0.9.9 24.el6

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1.3225 perl-storable 2.45 3.el7

1.3226 screen 4.1.0-0.25.20120314git3c2946.el7

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1.3228 bmizerany-aws4 0.0.0-20141025110357-5fb2e7239626

1.3228.1 Available under license:

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1215848263_1634581870.0/0/aws4-5fb2e72396263668edd9a2956052e402cf6c104a-0-handbook/aws4-5fb2e72396263668edd9a2956052e402cf6c104a/README.md

**1.3229 dry-configurable 0.12.1**

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1.3230 log-rotate 3.8.6 19.el7

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### 1.3231 jackson-dataformat-yaml 2.9.8

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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--------------------------------------------------------------------------

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1.3236 sphinx-rtd-theme 0.1.9

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* /

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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The complete text of the license is available at the
Open Source Used In Secure Workload 3.6.1.1

- Initialize empty image
  f1c9645dbc14efddc7d8a322685f26eb bsd.img
- Create new DOS partition table
  57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------

<table>
<thead>
<tr>
<th><strong>ts_dev</strong></th>
<th>10 MB, 10485760 bytes, 20480 sectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units</td>
<td>sectors of 1 * 512 = 512 bytes</td>
</tr>
<tr>
<td>Sector size</td>
<td>(logical/physical): 512 bytes / 512 bytes</td>
</tr>
<tr>
<td>I/O size</td>
<td>(minimum/optimal): 512 bytes / 512 bytes</td>
</tr>
<tr>
<td>Disk label</td>
<td>type: dos</td>
</tr>
<tr>
<td>Disk identifier: 0x00000001</td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Device</th>
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<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
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<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------

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</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type
2d8e8dffe51a88a045db233418dd73fbe bsd.img

---layout----------

<table>
<thead>
<tr>
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<th>10 MB, 10485760 bytes, 20480 sectors</th>
</tr>
</thead>
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<tr>
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<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size   fstype   [fsize bsize cpg]
c: 4096   20479   16384   unused       0    0

d: 0     16064   16065   unused       0    0

BSD disklabel command (m for help):
Command (m for help):

-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size   fstype   [fsize bsize cpg]
a: 4096   6144   2049   4.2BSD       0    0    0

c: 4096   20479   16384   unused       0    0

d: 0     16064   16065   unused       0    0

BSD disklabel command (m for help):
Command (m for help):

-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help):

BSD disklabel command (m for help):

0 unused  5 4.1BSD  9 4.4LFS  d boot
1 swap  6 Eighth Edition  a unknown  e ADOS
2 Version 6  7 4.2BSD  b HPFS  f HFS
3 Version 7  8 MS-DOS  c ISO-9660  10 AdvFS
4 System V

BSD disklabel command (m for help):

1.3246 deltarpm 3.6 3.el7
1.3246.1 Available under license :

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1.3247 pycparser 2.19

1.3247.1 Available under license:
pycparser -- A C parser in Python

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1.3248 curl 7.69.1-r0

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### 1.3249 python-setuptools 58.2.0

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### 1.3250 async 1.4.1

#### 1.3250.1 Available under license:

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Julian Seward, Cambridge, UK.
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.3264 glib 2.42.2 5.el7

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1.3265 python-setuptools 12.0.5

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Metadata-Version: 1.1
Name: setuptools
Version: 12.0.5
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://bitbucket.org/pypa/setuptools
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Description: ===============================
Installing and Using Setuptools

`Change History <https://pythonhosted.org/setuptools/history.html>`_.

-------------------------
Installation Instructions
-------------------------

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py` and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this
basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools
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<https://bitbucket.org/pypa/setuptools/raw/bootstrap-py24/ez_setup.py>`_.

PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End
The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)
================================

For best results, uninstall previous versions FIRST (see `Uninstalling`_).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command. Start up Powershell and paste this command::

   > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

   > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user

If you have Python 3.3 or later, you can use the `py` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

   > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -

The recommended way to install setuptools on Windows is to download `ez_setup.py`_ and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `$env:APPDATA\Python\Scripts`.

Windows (simplified)
---------------------

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py`_ using your preferred web browser or other technique and "run" that file.

Unix (wget)
Most Linux distributions come with `wget`.

Download ``ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you will may need to invoke the command with superuser privileges to install to the system Python::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`_). If you happen to encounter them, install Setuptools as follows::

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `-o`. For example::

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_.

---

Open Source Used In Secure Workload 3.6.1.1 37337
and run setup.py with any supported distutils and Setuptools options.
For example::

    setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially the section
on custom installation locations`_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of `setuptools`
is available from the `Bitbucket repo`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an `exe` or `msi`
installer, simply use the uninstall feature of `Add/Remove Programs` in the
Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python
version, delete all `setuptools*` and `distribute*` files and
directories from your system's `site-packages` directory
(and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,
nothing further needs to be done. If you want to completely remove Setuptools,
you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts
and associated executables installed to the Python scripts directory.

---------------------------------

Using Setuptools and EasyInstall
Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`
* `The setuptools Developer's Guide`
* `The pkg_resources API reference`
* `The Internal Structure of Python Eggs`

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`.

.. _setuptools bug tracker: https://bitbucket.org/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

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Credits
-----

* The original design for the ``.egg`` format and the ``pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of easy_install, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.
* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Python Software Foundation License
Classifier: License :: OSI Approved :: Zope Public License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.1
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/PKG-INFO
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/setuptools.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

========
CHANGES
========

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12.0.5
* Issue #339: Correct Attribute reference in `cant_write_to_target`.

* Issue #335: Fix script header generation on Windows.

* Fixed incorrect class attribute in `install_scripts`. Tests would be nice.

* Issue #331: Fixed `install_scripts` command on Windows systems corrupting the header.

* Restore `setuptools.command.easy_install.sys_executable` for pbr compatibility. For the future, tools should construct a CommandSpec explicitly.

* Issue #188: setuptools now support multiple entities in the value for `build.executable`, such that an executable of `/usr/bin/env my-python` may be specified. This means that systems with a specified executable whose name has spaces in the path must be updated to escape or quote that value.

* Deprecated `easy_install.ScriptWriter.get_writer`, replaced by `.best()` with slightly different semantics (no force_windows flag).

* Issue #327: Formalize and restore support for any printable character in an entry point name.
* Expose `EntryPoint.resolve` in place of `EntryPoint._load`, implementing the simple, non-requiring load. Deprecated all uses of `EntryPoint._load` except for calling with no parameters, which is just a shortcut for `ep.require(); ep.resolve();`.

Apps currently invoking `ep.load(require=False)` should instead do the following if wanting to avoid the deprecating warning::

    getattr(ep, "resolve", lambda: ep.load(require=False))()

* Pip #2326: Report deprecation warning at stacklevel 2 for easier diagnosis.

* Issue #281: Since Setuptools 6.1 (Issue #268), a ValueError would be raised in certain cases where VersionConflict was raised with two arguments, which occurred in `pkg_resources.WorkingSet.find`. This release adds support for indicating the dependent packages while maintaining support for a VersionConflict when no dependent package context is known. New unit tests now capture the expected interface.

* Interop #3: Upgrade to Packaging 15.0; updates to PEP 440 so that >1.7 does not exclude 1.7.1 but does exclude 1.7.0 and 1.7.0.post1.

* Issue #323: Fix regression in entry point name parsing.
* Deprecated use of EntryPoint.load(require=False). Passing a boolean to a function to select behavior is an anti-pattern. Instead use `Entrypoint._load()`.

* Substantial refactoring of all unit tests. Tests are now much leaner and re-use a lot of fixtures and contexts for better clarity of purpose.

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10.1

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* Issue #320: Added a compatibility implementation of `sdist._default_revctrl` so that systems relying on that interface do not fail (namely, Ubuntu 12.04 and similar Debian releases).

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10.0.1

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* Issue #319: Fixed issue installing pure distutils packages.

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10.0

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* Issue #313: Removed built-in support for subversion. Projects wishing to retain support for subversion will need to use a third party library. The extant implementation is being ported to `setuptools_svn`.

* Issue #315: Updated setuptools to hide its own loaded modules during installation of another package. This change will enable setuptools to upgrade (or downgrade) itself even when its own metadata and implementation change.

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9.1

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* Prefer vendored packaging library `as recommended` [link](https://github.com/jaraco/setuptools/commit/170657b68f4b92e7e1bf82f5e19a831f5744af67#commitcomment-9109448).

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9.0.1

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* Issue #312: Restored presence of pkg_resources API tests (doctest) to sdist.
9.0

* Issue #314: Disabled support for `setup_requires` metadata to avoid issue where Setuptools was unable to upgrade over earlier versions.

8.4

* Pull Request #106: Now write `setup_requires` metadata.

8.3

* Issue #311: Decoupled pkg_resources from setuptools once again. `pkg_resources` is now a package instead of a module.

8.2.1

* Issue #306: Suppress warnings about Version format except in select scenarios (such as installation).

8.2

* Pull Request #85: Search egg-base when adding egg-info to manifest.

8.1

* Upgrade `packaging` to 14.5, giving preference to "rc" as designator for release candidates over "c".
* PEP-440 warnings are now raised as their own class, `pkg_resources.PEP440Warning`, instead of RuntimeWarning.
* Disabled warnings on empty versions.
* Upgrade ``packaging`` to 14.4, fixing an error where there is a different result for if 2.0.5 is contained within >2.0dev and >2.0.dev even though normalization rules should have made them equal.

* Issue #296: Add warning when a version is parsed as legacy. This warning will make it easier for developers to recognize deprecated version numbers.

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8.0.3
-----

* Issue #296: Restored support for ``__hash__`` on parse_version results.

-----

8.0.2
-----

* Issue #296: Restored support for ``__getitem__`` and sort operations on parse_version result.

-----

8.0.1
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* Issue #296: Restore support for iteration over parse_version result, but deprecated that usage with a warning. Fixes failure with buildout.

---

8.0
---

* Implement `PEP 440 <http://legacy.python.org/dev/peps/pep-0440/>`_ within pkg_resources and setuptools. This change deprecates some version numbers such that they will no longer be installable without using the ``===`` escape hatch. See `the changes to test_resources <https://bitbucket.org/pypa/setuptools/commits/dcd552da643c4448056de84c73d56da6d70769d5#chg-setuptools/testes/test_resources.py>`_ for specific examples of version numbers and specifiers that are no longer supported. Setuptools now "vendors" the `packaging <https://github.com/pypa/packaging>`_ library.

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7.0
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* Issue #80, Issue #209: Eggs that are downloaded for ``setup_requires``, ``test_requires``, etc. are now placed in a ``./.eggs`` directory instead of directly in the current directory. This choice of location means the files can be readily managed (removed, ignored). Additionally,
later phases or invocations of setuptools will not detect the package as already installed and ignore it for permanent install (See #209).

This change is indicated as backward-incompatible as installations that depend on the installation in the current directory will need to account for the new location. Systems that ignore `*.egg` will probably need to be adapted to ignore `*.eggs`. The files will need to be manually moved or will be retrieved again. Most use cases will require no attention.

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6.1
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* Issue #268: When resolving package versions, a VersionConflict now reports which package previously required the conflicting version.

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6.0.2
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* Issue #262: Fixed regression in pip install due to egg-info directories being omitted. Re-opens Issue #118.

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6.0.1
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* Issue #259: Fixed regression with namespace package handling on `single version, externally managed` installs.

---
6.0
---

* Issue #100: When building a distribution, Setuptools will no longer match default files using platform-dependent case sensitivity, but rather will only match the files if their case matches exactly. As a result, on Windows and other case-insensitive file systems, files with names such as `readme.txt` or `README.TXT` will be omitted from the distribution and a warning will be issued indicating that `README.txt` was not found. Other filenames affected are:

- README.rst
- README
- setup.cfg
- setup.py (or the script name)
- test/test*.py
Any users producing distributions with filenames that match those above case-insensitively, but not case-sensitively, should rename those files in their repository for better portability.

* Pull Request #72: When using `single_version_externally_managed`, the exclusion list now includes Python 3.2 `__pycache__` entries.
* Pull Request #76 and Pull Request #78: lines in top_level.txt are now ordered deterministically.
* Issue #118: The egg-info directory is now no longer included in the list of outputs.
* Issue #258: Setuptools now patches distutils msvc9compiler to recognize the specially-packaged compiler package for easy extension module support on Python 2.6, 2.7, and 3.2.

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5.8
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* Issue #237: `pkg_resources` now uses explicit detection of Python 2 vs. Python 3, supporting environments where builtins have been patched to make Python 3 look more like Python 2.

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5.7
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* Issue #240: Based on real-world performance measures against 5.4, zip manifests are now cached in all circumstances. The `PKG_RESOURCES_CACHE_ZIP_MANIFESTS` environment variable is no longer relevant. The observed "memory increase" referenced in the 5.4 release notes and detailed in Issue #154 was likely not an increase over the status quo, but rather only an increase over not storing the zip info at all.

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5.6
---

* Issue #242: Use absolute imports in svn_utils to avoid issues if the installing package adds an xml module to the path.

-----

5.5.1
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* Issue #239: Fix typo in 5.5 such that fix did not take.
* Issue #239: Setuptools now includes the setup_requires directive on Distribution objects and validates the syntax just like install_requires and tests_require directives.

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5.4.2
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* Issue #236: Corrected regression in execfile implementation for Python 2.6.

-----
5.4.1
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* Python #7776: (ssl_support) Correct usage of host for validation when tunneling for HTTPS.

---
5.4
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* Issue #154: ``pkg_resources`` will now cache the zip manifests rather than re-processing the same file from disk multiple times, but only if the environment variable ``PKG_RESOURCES_CACHE_ZIP_MANIFESTS`` is set. Clients that package many modules in the same zip file will see some improvement in startup time by enabling this feature. This feature is not enabled by default because it causes a substantial increase in memory usage.

---
5.3
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* Issue #185: Make svn tagging work on the new style SVN metadata. Thanks cazabon!
* Prune revision control directories (e.g .svn) from base path as well as sub-directories.

---
5.2
---

* Some code refactoring and cleanup was done with no intended behavioral changes.
* During install_egg_info, the generated lines for namespace package .pth
files are now processed even during a dry run.

---
5.1
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* Issue #202: Implemented more robust cache invalidation for the ZipImporter, building on the work in Issue #168. Special thanks to Jurko Gospodnetic and PJE.

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5.0.2
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* Issue #220: Restored script templates.

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5.0.1
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* Renamed script templates to end with .tmpl now that they no longer need to be processed by 2to3. Fixes spurious syntax errors during build/install.

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5.0
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* Issue #218: Re-release of 3.8.1 to signal that it supersedes 4.x.
* Incidentally, script templates were updated not to include the triple-quote escaping.

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3.7.1 and 3.8.1 and 4.0.1
-------------------------

* Issue #213: Use legacy StringIO behavior for compatibility under pbr.
* Issue #218: Setuptools 3.8.1 superseded 4.0.1, and 4.x was removed from the available versions to install.

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4.0
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* Issue #210: `setup.py develop` now copies scripts in binary mode rather than text mode, matching the behavior of the `install` command.

---
3.8
* Extend Issue #197 workaround to include all Python 3 versions prior to 3.2.2.

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3.7
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* Issue #193: Improved handling of Unicode filenames when building manifests.

---

3.6
---

* Issue #203: Honor proxy settings for Powershell downloader in the bootstrap routine.

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3.5.2
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* Issue #168: More robust handling of replaced zip files and stale caches. Fixes ZipImportError complaining about a 'bad local header'.

-----

3.5.1
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* Issue #199: Restored `install._install` for compatibility with earlier NumPy versions.

---

3.5
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* Issue #195: Follow symbolic links in find_packages (restoring behavior broken in 3.4).
* Issue #197: On Python 3.1, PKG-INFO is now saved in a UTF-8 encoding instead of `sys.getpreferredencoding` to match the behavior on Python 2.6-3.4.
* Issue #192: Preferred bootstrap location is now https://bootstrap.pypa.io/ez_setup.py (mirrored from former location).

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3.4.4
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* Issue #184: Correct failure where find_package over-matched packages
when directory traversal isn’t short-circuited.

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3.4.3

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* Issue #183: Really fix test command with Python 3.1.

-----

3.4.2

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* Issue #183: Fix additional regression in test command on Python 3.1.

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3.4.1

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* Issue #180: Fix regression in test command not caught by py.test-run tests.

---

3.4

---

* Issue #176: Add parameter to the test command to support a custom test runner: --test-runner or -r.
* Issue #177: Now assume most common invocation to install command on platforms/environments without stack support (issuing a warning). setuptools now installs naturally on IronPython. Behavior on CPython should be unchanged.

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3.3

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* Add `include` parameter to `setuptools.find_packages()`.

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3.2

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* Pull Request #39: Add support for C++ targets from Cython `.pyx` files.
* Issue #162: Update dependency on certifi to 1.0.1.
* Issue #164: Update dependency on wincertstore to 0.2.

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3.1

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* Issue #161: Restore Features functionality to allow backward compatibility (for Features) until the uses of that functionality is sufficiently removed.

-----

3.0.2
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* Correct typo in previous bugfix.

-----

3.0.1
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* Issue #157: Restore support for Python 2.6 in bootstrap script where `zipfile.ZipFile` does not yet have support for context managers.

---

3.0
---

* Issue #125: Prevent Subversion support from creating a ~/.subversion directory just for checking the presence of a Subversion repository.
* Issue #12: Namespace packages are now imported lazily. That is, the mere declaration of a namespace package in an egg on `sys.path` no longer causes it to be imported when `pkg_resources` is imported. Note that this change means that all of a namespace package's `__init__.py` files must include a `declare_namespace()` call in order to ensure that they will be handled properly at runtime. In 2.x it was possible to get away without including the declaration, but only at the cost of forcing namespace packages to be imported early, which 3.0 no longer does.
* Issue #148: When building (bdist_egg), setuptools no longer adds `__init__.py` files to namespace packages. Any packages that rely on this behavior will need to create `__init__.py` files and include the `declare_namespace()`.
* Issue #7: setuptools itself is now distributed as a zip archive in addition to tar archive. ez_setup.py now uses zip archive. This approach avoids the potential security vulnerabilities presented by use of tar archives in ez_setup.py. It also leverages the security features added to ZipFile.extract in Python 2.7.4.
* Issue #65: Removed deprecated Features functionality.
* Pull Request #28: Remove backport of `__bytecode_filenames` which is available in Python 2.6 and later, but also has better compatibility with Python 3 environments.
* Issue #156: Fix spelling of __PYVENV_LAUNCHER__ variable.

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2.2
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* Issue #141: Restored fix for allowing setup_requires dependencies to override installed dependencies during setup.
* Issue #128: Fixed issue where only the first dependency link was honored in a distribution where multiple dependency links were supplied.

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2.1.2
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* Issue #144: Read long_description using codecs module to avoid errors installing on systems where LANG=C.

-----
2.1.1
-----

* Issue #139: Fix regression in re_finder for CVS repos (and maybe Git repos as well).

---
2.1
---

* Issue #131: Fix RuntimeError when constructing an egg fetcher.

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2.0.2
-----

* Fix NameError during installation with Python implementations (e.g. Jython) not containing parser module.
* Fix NameError in `sdist:re_finder`.

-----
2.0.1
-----

* Issue #124: Fixed error in list detection in upload_docs.

---
2.0
---

* Issue #121: Exempt lib2to3 pickled grammars from DirectorySandbox.
* Issue #41: Dropped support for Python 2.4 and Python 2.5. Clients requiring
setuptools for those versions of Python should use setuptools 1.x.
* Removed `setuptools.command.easy_install.HAS_USER_SITE`. Clients expecting this boolean variable should use `site ENABLE USER_SITE` instead.
* Removed `pkg_resources.ImpWrapper`. Clients that expected this class should use `pkgutil.ImpImporter` instead.

-----
1.4.2
-----

* Issue #116: Correct TypeError when reading a local package index on Python 3.

-----
1.4.1
-----

* Issue #114: Use `sys.getfilesystemencoding` for decoding config in `bdist_wininst` distributions.

* Issue #105 and Issue #113: Establish a more robust technique for determining the terminal encoding:

1. Try `getpreferredencoding`
2. If that returns US_ASCII or None, try the encoding from `getdefaultlocale`. If that encoding was a "fallback" because Python could not figure it out from the environment or OS, encoding remains unresolved.
3. If the encoding is resolved, then make sure Python actually implements the encoding.
4. On the event of an error or unknown codec, revert to fallbacks (UTF-8 on Darwin, ASCII on everything else).
5. On the encoding is 'mac-roman' on Darwin, use UTF-8 as 'mac-roman' was a bug on older Python releases.

On a side note, it would seem that the encoding only matters for when SVN does not yet support `--xml` and when getting repository and svn version numbers. The `--xml` technique should yield UTF-8 according to some messages on the SVN mailing lists. So if the version numbers are always 7-bit ASCII clean, it may be best to only support the file parsing methods for legacy SVN releases and support for SVN without the subprocess command would simple go away as support for the older SVNs does.

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1.4
---
* Issue #27: ``easy_install`` will now use credentials from .pypirc if present for connecting to the package index.
* Pull Request #21: Omit unwanted newlines in `package_index._encode_auth` when the username/password pair length indicates wrapping.

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1.3.2
-----

* Issue #99: Fix filename encoding issues in SVN support.

-----

1.3.1
-----

* Remove exuberant warning in SVN support when SVN is not used.

---

1.3
---

* Address security vulnerability in SSL match_hostname check as reported in Python #17997.
* Prefer `backports.ssl_match_hostname` for backport implementation if present.
* Correct NameError in ``ssl_support`` module (`socket.error`).

---

1.2
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* Issue #26: Add support for SVN 1.7. Special thanks to Philip Thiem for the contribution.
* Issue #93: Wheels are now distributed with every release. Note that as reported in Issue #108, as of Pip 1.4, scripts aren't installed properly from wheels. Therefore, if using Pip to install setuptools from a wheel, the ``easy_install`` command will not be available.
* Setuptools "natural" launcher support, introduced in 1.0, is now officially supported.

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1.1.7
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* Fixed behavior of NameError handling in `script template (dev).py` (script launcher for 'develop' installs).
* ``ez_setup.py`` now ensures partial downloads are cleaned up following
a failed download.
* Distribute #363 and Issue #55: Skip an sdist test that fails on locales other than UTF-8.

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1.1.6
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* Distribute #349: ``sandbox.execfile`` now opens the target file in binary mode, thus honoring a BOM in the file when compiled.

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1.1.5
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* Issue #69: Second attempt at fix (logic was reversed).

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1.1.4
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* Issue #77: Fix error in upload command (Python 2.4).

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1.1.3
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* Fix NameError in previous patch.

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1.1.2
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* Issue #69: Correct issue where 404 errors are returned for URLs with fragments in them (such as #egg=).

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1.1.1
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* Issue #75: Add `--insecure` option to ez_setup.py to accommodate environments where a trusted SSL connection cannot be validated.
* Issue #76: Fix AttributeError in upload command with Python 2.4.
* Issue #71 (Distribute #333): EasyInstall now puts less emphasis on the condition when a host is blocked via ``--allow-hosts``.
* Issue #72: Restored Python 2.4 compatibility in ``ez_setup.py``.

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1.0
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* Issue #60: On Windows, Setuptools supports deferring to another launcher, such as Vinay Sajip's `pylauncher <https://bitbucket.org/pypa/pylauncher>`_ (included with Python 3.3) to launch console and GUI scripts and not install its own launcher executables. This experimental functionality is currently only enabled if the ``SETUPTOOLS_LAUNCHER`` environment variable is set to "natural". In the future, this behavior may become default, but only after it has matured and seen substantial adoption. The ``SETUPTOOLS_LAUNCHER`` also accepts "executable" to force the default behavior of creating launcher executables.
* Issue #63: Bootstrap script (ez_setup.py) now prefers Powershell, curl, or wget for retrieving the Setuptools tarball for improved security of the install. The script will still fall back to a simple ``urlopen`` on platforms that do not have these tools.
* Issue #65: Deprecated the `"Features` functionality.
* Issue #52: In `"VerifyingHTTPSConn``, handle a tunneled (proxied) connection.

Backward-Incompatible Changes
=============================

This release includes a couple of backward-incompatible changes, but most if not all users will find 1.0 a drop-in replacement for 0.9.

* Issue #50: Normalized API of environment marker support. Specifically, removed line number and filename from SyntaxErrors when returned from `"pkg_resources.invalid_marker``. Any clients depending on the specific string representation of exceptions returned by that function may need to be updated to account for this change.
* Issue #50: SyntaxErrors generated by `"pkg_resources.invalid_marker`` are normalized for cross-implementation consistency.
* Removed `"-ignore-conflicts-at-my-risk`` and `"-delete-conflicting`` options to easy_install. These options have been deprecated since 0.6a11.

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0.9.8
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* Issue #53: Fix NameErrors in `"_vcs_split_rev_from_url``.

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0.9.7
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* Issue #49: Correct AttributeError on PyPy where a hashlib.HASH object does not have a `.name` attribute.
* Issue #34: Documentation now refers to bootstrap script in code repository referenced by bookmark.
* Add underscore-separated keys to environment markers (markerlib).

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0.9.6
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* Issue #44: Test failure on Python 2.4 when MD5 hash doesn't have a `.name` attribute.

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0.9.5
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* Python #17980: Fix security vulnerability in SSL certificate validation.

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0.9.4
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* Issue #43: Fix issue (introduced in 0.9.1) with version resolution when upgrading over other releases of Setuptools.

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0.9.3
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* Issue #42: Fix new `AttributeError` introduced in last fix.

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0.9.2
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* Issue #42: Fix regression where blank checksums would trigger an `AttributeError`.

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0.9.1
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* Distribute #386: Allow other positional and keyword arguments to os.open.
* Corrected dependency on certifi mis-referenced in 0.9.
* `package_index` now validates hashes other than MD5 in download links.

* Code base now runs on Python 2.4 - Python 3.3 without Python 2to3 conversion.

* Distribute #375: Yet another fix for yet another regression.

* Distribute #375: Repair AttributeError created in last release (redo).
* Issue #30: Added test for get_cache_path.

* Distribute #375: Repair AttributeError created in last release.

* Issue #20: Fix comparison of parsed SVN version on Python 3.
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0.7.3
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* Issue #1: Disable installation of Windows-specific files on non-Windows systems.
* Use new sysconfig module with Python 2.7 or >=3.2.

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0.7.2
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* Issue #14: Use markerlib when the `parser` module is not available.
* Issue #10: `ez_setup.py` now uses HTTPS to download setuptools from PyPI.

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0.7.1
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* Fix NameError (Issue #3) again - broken in bad merge.

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0.7
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* Merged Setuptools and Distribute. See docs/merge.txt for details.

Added several features that were slated for setuptools 0.6c12:

* Index URL now defaults to HTTPS.
* Added experimental environment marker support. Now clients may designate a
  PEP-426 environment marker for "extra" dependencies. Setuptools uses this
  feature in `setup.py` for optional SSL and certificate validation support
  on older platforms. Based on Distutils-SIG discussions, the syntax is
  somewhat tentative. There should probably be a PEP with a firmer spec before
  the feature should be considered suitable for use.
* Added support for SSL certificate validation when installing packages from
  an HTTPS service.

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0.7b4
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* Issue #3: Fixed NameError in SSL support.

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0.6.49
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* Move warning check in `get_cache_path` to follow the directory creation to avoid errors when the cache path does not yet exist. Fixes the error reported in Distribute #375.

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0.6.48
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* Correct AttributeError in `ResourceManager.get_cache_path` introduced in 0.6.46 (redo).

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0.6.47
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* Correct AttributeError in `ResourceManager.get_cache_path` introduced in 0.6.46.

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0.6.46
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* Distribute #375: Issue a warning if the PYTHON_EGG_CACHE or otherwise customized egg cache location specifies a directory that's group- or world-writable.

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0.6.45
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* Distribute #379: `distribute_setup.py` now traps VersionConflict as well, restoring ability to upgrade from an older setuptools version.

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0.6.44
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* `distribute_setup.py` has been updated to allow Setuptools 0.7 to satisfy use_setuptools.

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0.6.43
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* Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).
0.6.42
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* External links finder no longer yields duplicate links.
* Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).

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0.6.41
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* Distribute #27: Use public api for loading resources from zip files rather than the private method `._zip_directory_cache`.
* Added a new function `easy_install.get_win_launcher` which may be used by third-party libraries such as buildout to get a suitable script launcher.

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0.6.40
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* Distribute #376: brought back cli.exe and gui.exe that were deleted in the previous release.

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0.6.39
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* Add support for console launchers on ARM platforms.
* Fix possible issue in GUI launchers where the subsystem was not supplied to the linker.
* Launcher build script now refactored for robustness.
* Distribute #375: Resources extracted from a zip egg to the file system now also check the contents of the file against the zip contents during each invocation of get_resource_filename.

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0.6.38
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* Distribute #371: The launcher manifest file is now installed properly.

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0.6.37
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* Distribute #143: Launcher scripts, including easy_install itself, are now accompanied by a manifest on 32-bit Windows environments to avoid the Installer Detection Technology and thus undesirable UAC elevation described
in this Microsoft article

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0.6.36
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* Pull Request #35: In Buildout #64, it was reported that
under Python 3, installation of distutils scripts could attempt to copy
the "__pycache__" directory as a file, causing an error, apparently only
under Windows. Easy_install now skips all directories when processing
metadata scripts.

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0.6.35
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Note this release is backward-incompatible with distribute 0.6.23-0.6.34 in
how it parses version numbers.

* Distribute #278: Restored compatibility with distribute 0.6.22 and setuptools
0.6. Updated the documentation to match more closely with the version
parsing as intended in setuptools 0.6.

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0.6.34
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* Distribute #341: 0.6.33 fails to build under Python 2.4.

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0.6.33
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* Fix 2 errors with Jython 2.5.
* Fix 1 failure with Jython 2.5 and 2.7.
* Disable workaround for Jython scripts on Linux systems.
* Distribute #336: `setup.py` no longer masks failure exit code when tests fail.
* Fix issue in pkg_resources where try/except around a platform-dependent
import would trigger hook load failures on Mercurial. See pull request 32
for details.
* Distribute #341: Fix a ResourceWarning.

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0.6.32
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* Fix test suite with Python 2.6.
* Fix some DeprecationWarnings and ResourceWarnings.
* Distribute #335: Backed out `setup_requires` superceding installed requirements until regression can be addressed.

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0.6.31
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* Distribute #303: Make sure the manifest only ever contains UTF-8 in Python 3.
* Distribute #329: Properly close files created by tests for compatibility with Jython.
* Work around Jython #1980 and Jython #1981.
* Distribute #334: Provide workaround for packages that reference `sys.__stdout__` such as numpy does. This change should address `virtualenv #359 <https://github.com/pypa/virtualenv/issues/359>` as long as the system encoding is UTF-8 or the IO encoding is specified in the environment, i.e.::

    PYTHONIOENCODING=utf8 pip install numpy

* Fix for encoding issue when installing from Windows executable on Python 3.
* Distribute #323: Allow `setup_requires` requirements to supercede installed requirements. Added some new keyword arguments to existing pkg_resources methods. Also had to updated how __path__ is handled for namespace packages to ensure that when a new egg distribution containing a namespace package is placed on sys.path, the entries in __path__ are found in the same order they would have been in had that egg been on the path when pkg_resources was first imported.

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0.6.30
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* Distribute #328: Clean up temporary directories in distribute_setup.py.
* Fix fatal bug in distribute_setup.py.

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0.6.29
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* Pull Request #14: Honor file permissions in zip files.
* Distribute #327: Merged pull request #24 to fix a dependency problem with pip.
* Merged pull request #23 to fix https://github.com/pypa/virtualenv/issues/301.
* If Sphinx is installed, the `upload_docs` command now runs `build_sphinx` to produce uploadable documentation.
* Distribute #326: `upload_docs` provided mangled auth credentials under Python 3.
* Distribute #320: Fix check for "createable" in distribute_setup.py.
* Distribute #305: Remove a warning that was triggered during normal operations.
* Distribute #311: Print metadata in UTF-8 independent of platform.
* Distribute #303: Read manifest file with UTF-8 encoding under Python 3.
* Distribute #301: Allow to run tests of namespace packages when using 2to3.
* Distribute #304: Prevent import loop in site.py under Python 3.3.
* Distribute #283: Reenable scanning of `*.pyc` / `*.pyo` files on Python 3.3.
* Distribute #299: The develop command didn't work on Python 3, when using 2to3, as the egg link would go to the Python 2 source. Linking to the 2to3'd code in build/lib makes it work, although you will have to rebuild the module before testing it.
* Distribute #306: Even if 2to3 is used, we build in-place under Python 2.
* Distribute #307: Prints the full path when .svn/entries is broken.
* Distribute #313: Support for sdist subcommands (Python 2.7)
* Distribute #314: test_local_index() would fail an OS X.
* Distribute #310: Non-ascii characters in a namespace __init__.py causes errors.
* Distribute #218: Improved documentation on behavior of `package_data` and `include_package_data`. Files indicated by `package_data` are now included in the manifest.
* `distribute_setup.py` now allows a `--download-base` argument for retrieving distribute from a specified location.

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0.6.28

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* Distribute #294: setup.py can now be invoked from any directory.
* Scripts are now installed honoring the umask.
* Added support for .dist-info directories.
* Distribute #283: Fix and disable scanning of `*.pyc` / `*.pyo` files on Python 3.3.

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0.6.27

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* Support current snapshots of CPython 3.3.
* Distribute now recognizes README.rst as a standard, default readme file.
* Exclude 'encodings' modules when removing modules from sys.modules.
  Workaround for #285.
* Distribute #231: Don't fiddle with system python when used with buildout (bootstrap.py)

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0.6.26

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* Distribute #183: Symlinked files are now extracted from source distributions.
* Distribute #227: Easy_install fetch parameters are now passed during the
installation of a source distribution; now fulfillment of setup_requires
dependencies will honor the parameters passed to easy_install.

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0.6.25
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* Distribute #258: Workaround a cache issue
* Distribute #260: distribute_setup.py now accepts the --user parameter for
  Python 2.6 and later.
* Distribute #262: package_index.open_with_auth no longer throws LookupError
  on Python 3.
* Distribute #269: AttributeError when an exception occurs reading Manifest.in
  on late releases of Python.
* Distribute #272: Prevent TypeError when namespace package names are unicode
  and single-install-externally-managed is used. Also fixes PIP issue
  449.
* Distribute #273: Legacy script launchers now install with Python2/3 support.

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0.6.24
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* Distribute #249: Added options to exclude 2to3 fixers

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0.6.23
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* Distribute #244: Fixed a test
* Distribute #243: Fixed a test
* Distribute #239: Fixed a test
* Distribute #240: Fixed a test
* Distribute #241: Fixed a test
* Distribute #237: Fixed a test
* Distribute #238: easy_install now uses 64bit executable wrappers on 64bit Python
* Distribute #208: Fixed parsed_versions, it now honors post-releases as noted in the documentation
* Distribute #207: Windows cli and gui wrappers pass CTRL-C to child python process
* Distribute #227: easy_install now passes its arguments to setup.py bdist_egg
* Distribute #225: Fixed a NameError on Python 2.5, 2.4

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0.6.21
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* Distribute #225: Fixed a regression on py2.4

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0.6.20
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* Distribute #135: Include url in warning when processing URLs in package_index.
* Distribute #212: Fix issue where easy_instal fails on Python 3 on windows installer.
* Distribute #213: Fix typo in documentation.

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0.6.19
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* Distribute #206: AttributeError: 'HTTPMessage' object has no attribute 'getheaders'

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0.6.18
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* Distribute #210: Fixed a regression introduced by Distribute #204 fix.

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0.6.17
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* Support 'DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT' environment variable to allow to disable installation of easy_install-$(version) script.
* Support Python >=3.1.4 and >=3.2.1.
* Distribute #204: Don't try to import the parent of a namespace package in declare_namespace
* Distribute #196: Tolerate responses with multiple Content-Length headers
* Distribute #205: Sandboxing doesn't preserve working_set. Leads to setup_requires problems.

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0.6.16
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* Builds sdist gztar even on Windows (avoiding Distribute #193).
* Distribute #192: Fixed metadata omitted on Windows when package_dir specified with forward-slash.
* Distribute #195: Cython build support.
* Distribute #200: Issues with recognizing 64-bit packages on Windows.

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0.6.15
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* Fixed typo in bdist_egg
* Several issues under Python 3 has been solved.
* Distribute #146: Fixed missing DLL files after easy_install of windows exe package.

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0.6.14

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* Distribute #170: Fixed unittest failure. Thanks to Toshio.
* Distribute #171: Fixed race condition in unitstests cause deadlocks in test suite.
* Distribute #143: Fixed a lookup issue with easy_install.
  Thanks to David and Zooko.
* Distribute #174: Fixed the edit mode when its used with setuptools itself

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0.6.13

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* Distribute #160: 2.7 gives ValueError("Invalid IPv6 URL")
* Distribute #150: Fixed using ~/.local even in a --no-site-packages virtualenv
* Distribute #163: scan index links before external links, and don't use the md5 when comparing two distributions

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0.6.12

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* Distribute #149: Fixed various failures on 2.3/2.4

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0.6.11

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* Found another case of SandboxViolation - fixed
* Distribute #15 and Distribute #48: Introduced a socket timeout of 15 seconds on url openings
* Added indexsidebar.html into MANIFEST.in
* Distribute #108: Fixed TypeError with Python3.1
* Distribute #121: Fixed --help install command trying to actually install.
* Distribute #112: Added an os.makedirs so that Tarek's solution will work.
* Distribute #133: Added --no-find-links to easy_install
* Added easy_install --user
* Distribute #100: Fixed develop --user not taking '.' in PYTHONPATH into account
* Distribute #134: removed spurious UserWarnings. Patch by VanLindberg
* Distribute #138: cant_write_to_target error when setup_requires is used.
* Distribute #147: respect the sys.dont_write_bytecode flag

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0.6.10

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* Reverted change made for the DistributionNotFound exception because zc.buildout uses the exception message to get the name of the distribution.

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0.6.9
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* Distribute #90: unknown setuptools version can be added in the working set
* Distribute #87: setup.py doesn't try to convert distribute_setup.py anymore
* Initial Patch by arfrever.
* Distribute #89: added a side bar with a download link to the doc.
* Distribute #86: fixed missing sentence in pkg_resources doc.
* Added a nicer error message when a DistributionNotFound is raised.
* Distribute #80: test_develop now works with Python 3.1
* Distribute #93: upload_docs now works if there is an empty sub-directory.
* Distribute #70: exec bit on non-exec files
* Distribute #99: now the standalone easy_install command doesn't uses a "setup.cfg" if any exists in the working directory. It will use it only if triggered by `''install_requires`` from a setup.py call (install, develop, etc).
* Distribute #101: Allowing ```os.devnull`` in Sandbox
* Distribute #92: Fixed the "no eggs" found error with MacPort
* (platform.mac_ver() fails)
* Distribute #103: test_get_script_header_jython_workaround not run anymore under py3 with C or POSIX local. Contributed by Arfrever.
* Distribute #104: removed the assertion when the installation fails, with a nicer message for the end user.
* Distribute #100: making sure there's no SandboxViolation when the setup script patches setuptools.

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0.6.8
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* Added "check_packages" in dist. (added in Setuptools 0.6c11)
* Fixed the DONT_PATCH_SETUPTOOLS state.

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0.6.7
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* Distribute #58: Added --user support to the develop command
* Distribute #11: Generated scripts now wrap their call to the script entry point in the standard "if name == 'main'"
* Added the 'DONT_PATCH_SETUPTOOLS' environment variable, so virtualenv can drive an installation that doesn't patch a global setuptools.
* Reviewed unladen-swallow specific change from
and determined that it no longer applies. Distribute should work fine with
Unladen Swallow 2009Q3.
* Distribute #21: Allow PackageIndex.open_url to gracefully handle all cases of a
httplib.HTTPException instead of just InvalidURL and BadStatusLine.
* Removed virtual-python.py from this distribution and updated documentation
to point to the actively maintained virtualenv instead.
* Distribute #64: use_setuptools no longer rebuilds the distribute egg every
time it is run
* use_setuptools now properly respects the requested version
* use_setuptools will no longer try to import a distribute egg for the
wrong Python version
* Distribute #74: no_fake should be True by default.
* Distribute #72: avoid a bootstrapping issue with easy_install -U

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0.6.6
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* Unified the bootstrap file so it works on both py2.x and py3k without 2to3
(patch by Holger Krekel)

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0.6.5
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* Distribute #65: cli.exe and gui.exe are now generated at build time,
depending on the platform in use.

* Distribute #67: Fixed doc typo (PEP 381/382)

* Distribute no longer shadows setuptools if we require a 0.7-series
setuptools. And an error is raised when installing a 0.7 setuptools with
distribute.

* When run from within buildout, no attempt is made to modify an existing
setuptools egg, whether in a shared egg directory or a system setuptools.

* Fixed a hole in sandboxing allowing builtin file to write outside of
the sandbox.

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0.6.4
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* Added the generation of `distribute_setup_3k.py` during the release.
This closes Distribute #52.
* Added an upload_docs command to easily upload project documentation to
PyPI's https://pythonhosted.org. This close issue Distribute #56.

* Fixed a bootstrap bug on the use_setuptools() API.

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0.6.3
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setuptools
==========

* Fixed a bunch of calls to file() that caused crashes on Python 3.

bootstrapping
=============

* Fixed a bug in sorting that caused bootstrap to fail on Python 3.

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0.6.2
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setuptools
==========

* Added Python 3 support; see docs/python3.txt.
  This closes Old Setuptools #39.

* Added option to run 2to3 automatically when installing on Python 3.
  This closes issue Distribute #31.

* Fixed invalid usage of requirement.parse, that broke develop -d.
  This closes Old Setuptools #44.

* Fixed script launcher for 64-bit Windows.
  This closes Old Setuptools #2.

* KeyError when compiling extensions.
  This closes Old Setuptools #41.

bootstrapping
=============

* Fixed bootstrap not working on Windows. This closes issue Distribute #49.

* Fixed 2.6 dependencies. This closes issue Distribute #50.
* Make sure setuptools is patched when running through easy_install
  This closes Old Setuptools #40.

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0.6.1
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setuptools
==========

* package_index.urlopen now catches BadStatusLine and malformed url errors.
  This closes Distribute #16 and Distribute #18.

* zip_ok is now False by default. This closes Old Setuptools #33.

* Fixed invalid URL error catching. Old Setuptools #20.

* Fixed invalid bootstraping with easy_install installation (Distribute #40).
  Thanks to Florian Schulze for the help.

* Removed buildout/bootstrap.py. A new repository will create a specific
  bootstrap.py script.

bootstrapping
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* The bootstrap process leave setuptools alone if detected in the system
  and --root or --prefix is provided, but is not in the same location.
  This closes Distribute #10.

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0.6
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setuptools
==========

* Packages required at build time where not fully present at install time.
  This closes Distribute #12.

* Protected against failures in tarfile extraction. This closes Distribute #10.

* Made Jython api_tests.txt doctest compatible. This closes Distribute #7.

* sandbox.py replaced builtin type file with builtin function open. This
  closes Distribute #6.
* Immediately close all file handles. This closes Distribute #3.

* Added compatibility with Subversion 1.6. This references Distribute #1.

pkg_resources
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* Avoid a call to /usr/bin/sw_vers on OSX and use the official platform API instead. Based on a patch from ronaldoussoren. This closes issue #5.

* Fixed a SandboxViolation for mkdir that could occur in certain cases. This closes Distribute #13.

* Allow to find_on_path on systems with tight permissions to fail gracefully. This closes Distribute #9.

* Corrected inconsistency between documentation and code of add_entry. This closes Distribute #8.

* Immediately close all file handles. This closes Distribute #3.

easy_install
============

* Immediately close all file handles. This closes Distribute #3.

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0.6c9
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* Fixed a missing files problem when using Windows source distributions on non-Windows platforms, due to distutils not handling manifest file line endings correctly.

* Updated Pyrex support to work with Pyrex 0.9.6 and higher.

* Minor changes for Jython compatibility, including skipping tests that can't work on Jython.

* Fixed not installing eggs in `install_requires` if they were also used for `setup_requires` or `tests_require`.

* Fixed not fetching eggs in `install_requires` when running tests.

* Allow `ez_setup.use_setuptools()` to upgrade existing setuptools installations when called from a standalone `setup.py`.

* Added a warning if a namespace package is declared, but its parent package
is not also declared as a namespace.

* Support Subversion 1.5

* Removed use of deprecated `md5` module if `hashlib` is available

* Fixed `bdist_wininst upload` trying to upload the `.exe` twice

* Fixed `bdist_egg` putting a `native_libs.txt` in the source package's `.egg-info`, when it should only be in the built egg's `EGG-INFO`.

* Ensure that _full_name is set on all shared libs before extensions are checked for shared lib usage. (Fixes a bug in the experimental shared library build support.)

* Fix to allow unpacked eggs containing native libraries to fail more gracefully under Google App Engine (with an `ImportError` loading the C-based module, instead of getting a `NameError`).

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0.6c7

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* Fixed `distutils.filelist.findall()` crashing on broken symlinks, and `egg_info` command failing on new, uncommitted SVN directories.

* Fix import problems with nested namespace packages installed via `--root` or `--single-version-externally-managed`, due to the parent package not having the child package as an attribute.

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0.6c6

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* Added `--egg-path` option to `develop` command, allowing you to force `.egg-link` files to use relative paths (allowing them to be shared across platforms on a networked drive).

* Fix not building binary RPMs correctly.

* Fix "eggsecutables" (such as setuptools' own egg) only being runnable with bash-compatible shells.

* Fix `#!` parsing problems in Windows `.exe` script wrappers, when there was whitespace inside a quoted argument or at the end of the `#!` line (a regression introduced in 0.6c4).

* Fix `test` command possibly failing if an older version of the project
being tested was installed on `''sys.path`` ahead of the test source directory.

* Fix `''find_packages()`` treating `''ez_setup`` and directories with `'''`` in their names as packages.

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0.6c5

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* Fix uploaded `''bdist_rpm`` packages being described as `''bdist_egg`` packages under Python versions less than 2.5.

* Fix uploaded `''bdist_wininst`` packages being described as suitable for "any" version by Python 2.5, even if a `''--target-version`` was specified.

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0.6c4

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* Overhauled Windows script wrapping to support `''bdist_wininst`` better. Scripts installed with `''bdist_wininst`` will always use `''#!python.exe`` or `''#!pythonw.exe`` as the executable name (even when built on non-Windows platforms!), and the wrappers will look for the executable in the script's parent directory (which should find the right version of Python).

* Fix `''upload`` command not uploading files built by `''bdist_rpm`` or `''bdist_wininst`` under Python 2.3 and 2.4.

* Add support for "eggsecutable" headers: a `''#!/bin/sh`` script that is prepended to an `''.egg`` file to allow it to be run as a script on Unix-ish platforms. (This is mainly so that setuptools itself can have a single-file installer on Unix, without doing multiple downloads, dealing with firewalls, etc.)

* Fix problem with empty revision numbers in Subversion 1.4 `''entries`` files

* Use cross-platform relative paths in `''easy-install.pth`` when doing `''develop`` and the source directory is a subdirectory of the installation target directory.

* Fix a problem installing eggs with a system packaging tool if the project contained an implicit namespace package; for example if the `''setup()`` listed a namespace package `''foo.bar`` without explicitly listing `''foo`` as a namespace package.

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0.6c3
* Fixed breakages caused by Subversion 1.4's new "working copy" format

* The `ez_setup` module displays the conflicting version of setuptools (and its installation location) when a script requests a version that's not available.

* Running `setup.py develop` on a setuptools-using project will now install setuptools if needed, instead of only downloading the egg.

* Fixed `AttributeError` when trying to download a `setup_requires` dependency when a distribution lacks a `dependency_links` setting.

* Made `zip-safe` and `not-zip-safe` flag files contain a single byte, so as to play better with packaging tools that complain about zero-length files.

* Made `setup.py develop` respect the `--no-deps` option, which it previously was ignoring.

* Support `extra_path` option to `setup()` when `install` is run in backward-compatibility mode.

* Source distributions now always include a `setup.cfg` file that explicitly sets `egg_info` options such that they produce an identical version number to the source distribution's version number. (Previously, the default version number could be different due to the use of `--tag-date`, or if the version was overridden on the command line that built the source distribution.)

* Fix `register` not obeying name/version set by `egg_info` command, if `egg_info` wasn't explicitly run first on the same command line.

* Added `--no-date` and `--no-svn-revision` options to `egg_info` command, to allow suppressing tags configured in `setup.cfg`.

---

0.6c2

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0.6c1

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0.6b4

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* Fixed redundant warnings about missing `README` file(s); it should now appear only if you are actually a source distribution.

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0.6b3

-----

* Fix `bdist_egg` not including files in subdirectories of `.egg-info`.

* Allow `.py` files found by the `include_package_data` option to be automatically included. Remove duplicate data file matches if both `include_package_data` and `package_data` are used to refer to the same files.

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0.6b1

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* Strip `module` from the end of compiled extension modules when computing the name of a `.py` loader/wrapper. (Python's import machinery ignores this suffix when searching for an extension module.)

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0.6a11

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* Added `test_loader` keyword to support custom test loaders

* Added `setuptools.file_finders` entry point group to allow implementing revision control plugins.

* Added `--identity` option to `upload` command.

* Added `dependency_links` to allow specifying URLs for `--find-links`.

* Enhanced test loader to scan packages as well as modules, and call `additional_tests()` if present to get non-unittest tests.

* Support namespace packages in conjunction with system packagers, by omitting the installation of any `__init__.py` files for namespace packages, and adding a special `.pth` file to create a working package in `sys.modules`.

* Made `--single-version-externally-managed` automatic when `--root` is used, so that most system packagers won't require special support for setuptools.
* Fixed `setup_requires`', `tests_require`', etc. not using `setup.cfg` or other configuration files for their option defaults when installing, and also made the install use `--multi-version` mode so that the project directory doesn't need to support .pth files.

* `MANIFEST.in` is now forcibly closed when any errors occur while reading it. Previously, the file could be left open and the actual error would be masked by problems trying to remove the open file on Windows systems.

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0.6a10
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* Fixed the `develop` command ignoring `--find-links`.

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0.6a9
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* The `sdist` command no longer uses the traditional `MANIFEST` file to create source distributions. `MANIFEST.in` is still read and processed, as are the standard defaults and pruning. But the manifest is built inside the project's `.egg-info` directory as `SOURCES.txt`, and it is rebuilt every time the `egg_info` command is run.

* Added the `include_package_data` keyword to `setup()`, allowing you to automatically include any package data listed in revision control or `MANIFEST.in`.

* Added the `exclude_package_data` keyword to `setup()`, allowing you to trim back files included via the `package_data` and `include_package_data` options.

* Fixed `--tag-svn-revision` not working when run from a source distribution.

* Added warning for namespace packages with missing `declare_namespace()`.

* Added `tests_require` keyword to `setup()`, so that e.g. packages requiring `nose` to run unit tests can make this dependency optional unless the `test` command is run.

* Made all commands that use `easy_install` respect its configuration options, as this was causing some problems with `setup.py install`.

* Added an `unpack_directory()` driver to `setuptools.archive_util`, so that you can process a directory tree through a processing filter as if it were a zipfile or tarfile.
* Added an internal `install_egg_info` command to use as part of old-style `install` operations, that installs an `.egg-info` directory with the package.

* Added a `--single-version-externally-managed` option to the `install` command so that you can more easily wrap a "flat" egg in a system package.

* Enhanced `bdist_rpm` so that it installs single-version eggs that don't rely on a `.pth` file. The `--no-egg` option has been removed, since all RPMs are now built in a more backwards-compatible format.

* Support full roundtrip translation of eggs to and from `bdist_wininst` format. Running `bdist_wininst` on a setuptools-based package wraps the egg in an .exe that will safely install it as an egg (i.e., with metadata and entry-point wrapper scripts), and `easy_install` can turn the .exe back into an `.egg` file or directory and install it as such.

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0.6a8

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* Fixed some problems building extensions when Pyrex was installed, especially with Python 2.4 and/or packages using SWIG.

* Made `develop` command accept all the same options as `easy_install`, and use the `easy_install` command's configuration settings as defaults.

* Made `egg_info --tag-svn-revision` fall back to extracting the revision number from `PKG-INFO` in case it is being run on a source distribution of a snapshot taken from a Subversion-based project.

* Automatically detect `.dll`, `.so` and `.dylib` files that are being installed as data, adding them to `native.libs.txt` automatically.

* Fixed some problems with fresh checkouts of projects that don't include `.egg-info/PKG-INFO` under revision control and put the project's source code directly in the project directory. If such a package had any requirements that get processed before the `egg_info` command can be run, the setup scripts would fail with a "Missing 'Version:' header and/or PKG-INFO file" error, because the egg runtime interpreted the unbuilt metadata in a directory on `sys.path` (i.e. the current directory) as being a corrupted egg. Setup tools now monkeypatches the distribution metadata cache to pretend that the egg has valid version information, until it has a chance to make it actually be so (via the `egg_info` command).

-----
* Fixed missing gui/cli .exe files in distribution. Fixed bugs in tests.

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0.6a3
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* Added ``gui_scripts`` entry point group to allow installing GUI scripts on Windows and other platforms. (The special handling is only for Windows; other platforms are treated the same as for ``console_scripts``.)

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0.6a2
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* Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an `.exe` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.

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0.6a1
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* Added support for building "old-style" RPMs that don't install an egg for the target package, using a ``--no-egg`` option.

* The ``build_ext`` command now works better when using the ``--inplace`` option and multiple Python versions. It now makes sure that all extensions match the current Python version, even if newer copies were built for a different Python version.

* The ``upload`` command no longer attaches an extra `.zip` when uploading eggs, as PyPI now supports egg uploads without trickery.

* The ``ez_setup`` script/module now displays a warning before downloading the setuptools egg, and attempts to check the downloaded egg against an internal MD5 checksum table.

* Fixed the ``--tag-svn-revision`` option of ``egg_info`` not finding the latest revision number; it was using the revision number of the directory containing ``setup.py``, not the highest revision number in the project.

* Added ``eager_resources`` setup argument

* The ``sdist`` command now recognizes Subversion "deleted file" entries and
does not include them in source distributions.

* ``setuptools`` now embeds itself more thoroughly into the distutils, so that other distutils extensions (e.g. py2exe, py2app) will subclass setuptools' versions of things, rather than the native distutils ones.

* Added ``entry_points`` and ``setup_requires`` arguments to ``setup()``; ``setup_requires`` allows you to automatically find and download packages that are needed in order to *build* your project (as opposed to running it).

* ``setuptools`` now finds its commands, ``setup()`` argument validators, and metadata writers using entry points, so that they can be extended by third-party packages. See `Creating distutils Extensions <http://pythonhosted.org/setuptools/setuptools.html#creating-distutils-extensions>`_ for more details.

* The vestigial ``depends`` command has been removed. It was never finished or documented, and never would have worked without EasyInstall - which it pre-dated and was never compatible with.

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0.5a12
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* The zip-safety scanner now checks for modules that might be used with ``python -m``, and marks them as unsafe for zipping, since Python 2.4 can't handle ``-m`` on zipped modules.

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0.5a11
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* Fix breakage of the "develop" command that was caused by the addition of ``--always-unzip`` to the ``easy_install`` command.

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0.5a9
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* Include ``svn:externals`` directories in source distributions as well as normal subversion-controlled files and directories.

* Added ``exclude=patternlist`` option to ``setuptools.find_packages()``

* Changed --tag-svn-revision to include an "r" in front of the revision number for better readability.

* Added ability to build eggs without including source files (except for any
scripts, of course), using the `--exclude-source-files` option to `bdist_egg`.

* `setup.py install` now automatically detects when an "unmanaged" package or module is going to be on `sys.path` ahead of a package being installed, thereby preventing the newer version from being imported. If this occurs, a warning message is output to `sys.stderr`, but installation proceeds anyway. The warning message informs the user what files or directories need deleting, and advises them they can also use EasyInstall (with the `--delete-conflicting` option) to do it automatically.

* The `egg_info` command now adds a `top_level.txt` file to the metadata directory that lists all top-level modules and packages in the distribution. This is used by the `easy_install` command to find possibly-conflicting "unmanaged" packages when installing the distribution.

* Added `zip_safe` and `namespace_packages` arguments to `setup()`. Added package analysis to determine zip-safety if the `zip_safe` flag is not given, and advise the author regarding what code might need changing.

* Fixed the swapped `--d` and `--b` options of `bdist_egg`.

-----

0.5a8
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* The "egg_info" command now always sets the distribution metadata to "safe" forms of the distribution name and version, so that distribution files will be generated with parseable names (i.e., ones that don't include '-' in the name or version). Also, this means that if you use the various `--tag` options of "egg_info", any distributions generated will use the tags in the version, not just egg distributions.

* Added support for defining command aliases in distutils configuration files, under the "[aliases]" section. To prevent recursion and to allow aliases to call the command of the same name, a given alias can be expanded only once per command-line invocation. You can define new aliases with the "alias" command, either for the local, global, or per-user configuration.

* Added "rotate" command to delete old distribution files, given a set of patterns to match and the number of files to keep. (Keeps the most recently-modified distribution files matching each pattern.)

* Added "saveopts" command that saves all command-line options for the current invocation to the local, global, or per-user configuration file. Useful for setting defaults without having to hand-edit a configuration file.

* Added a "setopt" command that sets a single option in a specified distutils
configuration file.

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0.5a7
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* Added "upload" support for egg and source distributions, including a bug fix for "upload" and a temporary workaround for lack of .egg support in PyPI.

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0.5a6
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* Beefed up the "sdist" command so that if you don't have a MANIFEST.in, it will include all files under revision control (CVS or Subversion) in the current directory, and it will regenerate the list every time you create a source distribution, not just when you tell it to. This should make the default "do what you mean" more often than the distutils' default behavior did, while still retaining the old behavior in the presence of MANIFEST.in.

* Fixed the "develop" command always updating .pth files, even if you specified `--n` or `--dry-run`.

* Slightly changed the format of the generated version when you use `--tag-build` on the "egg_info" command, so that you can make tagged revisions compare *lower* than the version specified in setup.py (e.g. by using `--tag-build=dev`).

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0.5a5
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* Added `develop` command to `setuptools`-based packages. This command installs an `.egg-link` pointing to the package's source directory, and script wrappers that `execfile()` the source versions of the package's scripts. This lets you put your development checkout(s) on sys.path without having to actually install them. (To uninstall the link, use `setup.py develop --uninstall`.)

* Added `egg_info` command to `setuptools`-based packages. This command just creates or updates the `projectname.egg-info` directory, without building an egg. (It's used by the `bdist_egg`, `test`, and `develop` commands.)

* Enhanced the `test` command so that it doesn't install the package, but instead builds any C extensions in-place, updates the `.egg-info` metadata, adds the source directory to `sys.path`, and runs the tests
directly on the source. This avoids an "unmanaged" installation of the package to `site-packages` or elsewhere.

* Made `easy_install` a standard `setuptools` command, moving it from the `easy_install` module to `setuptools.command.easy_install`. Note that if you were importing or extending it, you must now change your imports accordingly. `easy_install.py` is still installed as a script, but not as a module.

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0.5a4

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* Setup scripts using setuptools can now list their dependencies directly in the setup.py file, without having to manually create a `depends.txt` file. The `install_requires` and `extras_require` arguments to `setup()` are used to create a dependencies file automatically. If you are manually creating `depends.txt` right now, please switch to using these setup arguments as soon as practical, because `depends.txt` support will be removed in the 0.6 release cycle. For documentation on the new arguments, see the `setuptools.dist.Distribution` class.

* Setup scripts using setuptools now always install using `easy_install` internally, for ease of uninstallation and upgrading.

-----

0.5a1

-----

* Added support for "self-installation" bootstrapping. Packages can now include `ez_setup.py` in their source distribution, and add the following to their `setup.py`, in order to automatically bootstrap installation of setuptools as part of their setup process::

```python
from ez_setup import use_setuptools
use_setuptools()
```

```python
from setuptools import setup
# etc...
```

-----

0.4a2

-----

* Added `ez_setup.py` installer/bootstrap script to make initial setuptools installation easier, and to allow distributions using setuptools to avoid having to include setuptools in their source distribution.
* All downloads are now managed by the `PackageIndex` class (which is now subclassable and replaceable), so that embedders can more easily override download logic, give download progress reports, etc. The class has also been moved to the new `setuptools.package_index` module.

* The `Installer` class no longer handles downloading, manages a temporary directory, or tracks the `zip_ok` option. Downloading is now handled by `PackageIndex`, and `Installer` has become an `easy_install` command class based on `setuptools.Command`.

* There is a new `setuptools.sandbox.run_setup()` API to invoke a setup script in a directory sandbox, and a new `setuptools.archive_util` module with an `unpack_archive()` API. These were split out of EasyInstall to allow reuse by other tools and applications.

* `setuptools.Command` now supports reinitializing commands using keyword arguments to set/reset options. Also, `Command` subclasses can now set their `command_consumes_arguments` attribute to `True` in order to receive an `args` option containing the rest of the command line.

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0.3a2
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* Added new options to `bdist_egg` to allow tagging the egg's version number with a subversion revision number, the current date, or an explicit tag value. Run `setup.py bdist_egg --help` to get more information.

* Misc. bug fixes

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0.3a1
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* Initial release.

Found in path(s):
* `/opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/CHANGES.txt`

No license file was found, but licenses were detected in source scan.

License :: OSI Approved :: Zope Public License

Found in path(s):
* `/opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/setup.py`

No license file was found, but licenses were detected in source scan.

# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/_about__.py
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/__init__.py
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/specifiers.py
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/_structures.py
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/version.py
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/_compat.py

No license file was found, but licenses were detected in source scan.

```
Building and Distributing Packages with Setuptools
```

```
``Setuptools`` is a collection of enhancements to the Python ``distutils``
(for Python 2.6 and up) that allow developers to more easily build and
distribute Python packages, especially ones that have dependencies on other
packages.

Packages built and distributed using ``setuptools`` look to the user like
ordinary Python packages based on the ``distutils``. Your users don't need to
install or even know about setuptools in order to use them, and you don't
have to include the entire setuptools package in your distributions. By
including just a single `bootstrap module`_ (a 12K .py file), your package will
automatically download and install ``setuptools`` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
  the `EasyInstall tool <easy_install.html>`_,
  which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
  automatically scans web pages linked from PyPI to find download links. (It's
  the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ -
a single-file importable distribution format
* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`

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Developer's Guide
-----------------
Installing `setuptools`
================================

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run::

    ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use
========

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
    )

As you can see, it doesn't take much to use setuptools in a project. Just by doing the above, this project will be able to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script.

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

    from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = "hello world example examples",
    url = "http://example.com/HelloWorld/",  # project home page, if any

    # could also include long_description, download_url, classifiers, etc.
)

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version
----------------------------------

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as `"2.4"` or `"0.5"`. Each series of digits is treated numerically, so releases `"2.1"` and `"2.1.0"` are different ways to spell the same release number, denoting the first subrelease of release 2. But `"2.10"` is the *tenth* subrelease of release 2, and so is a different and newer release.
Leading zeros within a series of digits are also ignored, so `2.01` is the same as `2.1`, and different from `2.0.1`.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision `2.4` is *newer* than revision `2.4c1`, which in turn is newer than `2.4b1` or `2.4a1`. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like `2.4-1` and `2.4-pl3` are newer than `2.4`, but are *older* than `2.4.1` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include `alpha`, `beta`, `a`, `c`, `dev`, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, `2.4c1` and `2.4c1` and `2.4-c1` all represent release candidate 1 of version `2.4`, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter `c`: `pre`, `preview`, and `rc`. So, version `2.4rc1`, `2.4pre1` and `2.4preview1` are all the exact same version as `2.4c1`, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version `2.4-r1263` might denote Subversion revision 1263 of a post-release patch of version `2.4`. Or you might use `2.4-20051127` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, `0.6a9.dev-r41475` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that `dev` is a pre-release tag, so this version is a *lower* version number than `0.6a9`, which would be the actual ninth alpha of release 0.6. But the `r41475` is a post-release tag, so this version is *newer* than `0.6a9.dev`.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version `1.9adev` is the `adev` prerelease of `1.9`, *not* a development pre-release of `1.9a`. Use `.dev` instead, as in `1.9a.dev`, or separate the prerelease tags with a number, as in `1.9a0dev`, `1.9a.dev`, and even `1.9.a.dev` are
identical versions from setuptools’ point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers:

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_ command

### New and Changed ``setup()`` Keywords

The following keyword arguments to ``setup()`` are added or changed by setuptools. All of them are optional; you do not have to supply them unless you need the associated setuptools feature.

`include_package_data``
If set to ``True``, this tells setuptools to automatically include any data files it finds inside your package directories, that are either under CVS or Subversion control, or which are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`_

`exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`_

`package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`_. You do not need to use this option if you are using
``include_package_data``, unless you need to add e.g. files that are
generated by your setup script and build process. (And are therefore not
in source control or are files that you don't want to include in your
source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be
safely installed and run from a zip file. If this argument is not
supplied, the ``bdist_egg`` command will have to analyze all of your
project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to
be installed when this one is. See the section below on 'Declaring
Dependencies' for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings
defining the entry points. Entry points are used to support dynamic
discovery of services or plugins provided by a project. See 'Dynamic
Discovery of Services and Plugins' for details and examples of the format
of this argument. In addition, this keyword is used to support `Automatic
Script Creation`.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project)
to strings or lists of strings specifying what other distributions must be
installed to support those features. See the section below on 'Declaring
Dependencies' for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to
be present in order for the *setup script* to run. `setuptools` will
attempt to obtain these (even going so far as to download them using
``EasyInstall``) before processing the rest of the setup script or commands.
This argument is needed if you are using distutils extensions as part of
your build process; for example, extensions that process setup() arguments
and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically
installed on the system where the setup script is being run. They are
simply downloaded to the .eggs directory if they're not locally available
already. If you want them to be installed, as well as being available
when the setup script is run, you should add them to ``install_requires``
**and** ``setup_requires``.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies.
These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

`namespace_packages`  
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

`test_suite`  
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

`tests_require`  
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:

`test_loader`  
If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined
in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify `unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

``eager_resources``
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem as a unit. Resources listed here should be '/'-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using `find_packages()`
For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use `''src''` or `''lib''` as the first argument to `find_packages()`. (And such projects also need something like `''package_dir = {''':'src''}` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=['*.tests'])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=['*.tests', '*.tests.*'])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this:

``
find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])
``

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

**Automatic Script Creation**

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have
to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `''-m`` option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an ``.exe`` file so that users don't have to change their `''PATHEXT`` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called ``foo`` and ``bar``, and a GUI script called ``baz``, you might do something like this:

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ],
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of ``foo``, ``bar``, and ``baz`` scripts will be installed that import ``main_func`` and ``some_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `''sys.exit()```, so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `''sys.path`` when the script is run. For more information on "extras", see the section below on 'Declaring Extras`. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins`.

"Eggexecutable" Scripts

----------------------
Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following:

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`.

The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

**IMPORTANT NOTE:** Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

**Declaring Dependencies**

```
``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `"<", "\>\", ",=\", ",>\", ",==\", or "!=\", followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a

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project name or version identifier must be replaced with ``-``.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ``>1, >2`` becomes ``>1``., and ``<2,<3`` becomes ``<3``). ``!=`` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```python
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, 
  ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`., or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)
Dependencies that aren’t in PyPI

If your project depends on packages that aren’t registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository’s URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL’s path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
vcs+proto://host/path@revision#egg=project-version``
Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the "requires" and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run "setup.py bdist_egg".

The "dependency_links" option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(  
    ...  
    dependency_links = [  
      "http://peak.telecommunity.com/snapshots/"
    ],  
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)


Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their "install_requires".

For example, let's say that Project A offers optional PDF and reST support:

```python
setup(  
    name="Project-A",  
    ...  
    extras_require = {  
      'PDF': ["ReportLab>=1.2", "RXP"],  
      'reST': ["docutils>=0.3"],  
    }  
)
```

As you can see, the "extras_require" argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically
installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::
```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['docutils>=0.3'],
    }
)
```

so that Package B doesn't have to remove the "[PDF]" from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the "include_package_data" keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be under CVS or Subversion control, or else they must be specified via the distutils' "MANIFEST.in" file. (They can also be tracked by another revision control system, using an appropriate plugin. See the section below on 'Adding Support for Other Revision Control Systems' for information on how to write such plugins.)

If the data files are not under version control, or are not in a supported version control system, or if you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the "package_data" keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
```
The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```
setup.py
src/
   mypkg/
      __init__.py
      mypkg.txt
      data/
         somefile.dat
         otherdata.dat
```

The setuptools setup file might look like this:

```
from setuptools import setup, find_packages
setup(
   ...
   packages = find_packages('src'),  # include all packages under src
   package_dir = {'':'src'},   # tell distutils packages are under src

   package_data = {
      # If any package contains *.txt files, include them:
      ': ['*.txt'],
      # And include any *.dat files found in the 'data' subdirectory
      # of the 'mypkg' package, also:
      'mypkg': ['data/*.dat'],
   }
)
```

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in
``setuptools``, it was also added to the Python ``distutils`` package as of Python 2.4; there is some documentation for the feature available on the python.org website. If using the setuptools-specific ``include_package_data`` argument, files specified by ``package_data`` will *not* be automatically added to the manifest unless they are tracked by a supported version control system, or are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

```python
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'':'src'},   # tell distutils packages are under src

    include_package_data = True,    # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '' : ['README.txt'] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`
Accept all data files and directories matched by `MANIFEST.in` or found in source control.

`package_data`
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

`exclude_package_data`
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have
been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be “orphaned” in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's ``__file__`` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API`_ of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources`_ for a quick example of converting code that uses ``__file__`` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------

The `distutils` normally install general "data files" to a platform-specific location (e.g. `~/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`_, by specifying a `Requirement` instead of a package name::

```
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't
actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction
-------------------------------

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract all C extensions and `eager_resources` at the same time, whenever an C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.)  This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise
handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of "eager_resources" being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
-----------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an ``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group, for our hypothetical blogging tool::

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(  
    # ...  
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
  
```
The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
-------------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"
-------------------

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt"
Another problem that sometimes comes up with the ``distutils`` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

SetupTools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.
Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

    python -c "import setuptools; execfile('setup.py')" develop

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project
===========================================

Using `setuptools`... Without bundling it!
---------------------------------------------

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`, and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)
What Your Users Should Know
-----------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access
If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using ``easy_install``, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network access can just use ``-f`` with the URL of your download page, and ``easy_install`` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Subversion or CVS Users and Co-Developers
Users and co-developers who are tracking your in-development code using CVS, Subversion, or some other revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use ```setup.py develop``` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run ```setup.py clean --all``` and delete any obsolete ```.pyc``` or ```.pyo```. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't ```easy_install```! Setup tools currently supports ```bdist_rpm```, ```bdist_wininst```, and ```bdist_dumb``` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils ```install``` command, it should be able to work with ```setup tools```. Some examples of "bdist" formats that this should work with include the ```bdist_nsi``` and ```bdist_msi``` formats for Windows.

However, packaging tools that build binary distributions by running ```setup.py install``` on the command line or as a subprocess will require modification to work with setup tools. They should use the ```--single-version-externally-managed``` option to the ```install``` command, combined with the standard ```--root``` or ```--record``` options. See the `install command` documentation below for more details. The ```bdist_deb``` command is an example of a command that currently requires this kind of patching to work with setup tools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setup tools can be modified to resolve the issue.

Setting the ```--zip_safe``` flag

-----------------------------------

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, ```setup tools``` can install your project
as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok` or `setup.py easy_install --always-unzip` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages

------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a
package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its ``__init__.py``, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
    # ...
    namespace_packages = ['zope']
)
```

because it contains a ``zope.interface`` package that lives in the ``zope`` namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line:

```python
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which
project's copy of ``__init__.py`` is loaded first. If the first loaded
``__init__.py`` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime,
but future versions may *not*. This is because the automatic declaration
feature has some negative side effects, such as needing to import all namespace
packages during the initialization of the ``pkg_resources`` runtime, and also
the need for ``pkg_resources`` to be explicitly imported before any namespace
packages work at all. In some future releases, you'll be responsible
for including your own declaration lines, and the automatic declaration feature
will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools
will warn you about missing ``declare_namespace()`` calls in your
``__init__.py`` files, and you should correct these as soon as possible
before the compatibility support is removed.
Namespace packages without declaration lines will not work
correctly once a user has upgraded to a later version, so it's important that
you make this change now in order to avoid having your code break in the field.
Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
-----------------------------------------------

When a set of related projects are under development, it may be important to
track finer-grained version increments than you would normally use for e.g.
"stable" releases. While stable releases might be measured in dotted numbers
with alpha/beta/etc. status codes, development versions of a project often
need to be tracked by revision or build number or even build date. This is
especially true when projects in development need to refer to one another, and
therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and
egg distributions by adding one or more of the following to the project's
"official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a
  manually-specified post-release tag, such as a build or revision number
  (`--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from
Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ```egg_info```` and the desired options to the command line ahead of the ```sdist```` or ```bdist```` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like:

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like `daily` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ```setup.py daily```` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions

`setuptools` enhances the distutils' default algorithm for source file selection, so that all files managed by CVS or Subversion in your project tree are included in any source distribution you build. This is a big improvement over having to manually write a `MANIFEST.in` file and try to keep it in sync with your project. So, if you are using CVS or Subversion, and your
source distributions only need to include files that you're tracking in revision control, don't create a a `MANIFEST.in` file for your project. (And, if you already have one, you might consider deleting it the next time you would otherwise have to change it.)

(NOTE: other revision control systems besides CVS and Subversion can be supported using plugins; see the section below on `Adding Support for Other Revision Control Systems` for information on how to write such plugins.)

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

(By the way, if you're using some other revision control system, you might consider creating and publishing a `revision control plugin for setuptools`.

.. _revision control plugin for setuptools: `Adding Support for Other Revision Control Systems`_

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command` for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.
However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

``long_description``

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or `#egg=project-version` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `#egg=` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., `#egg=projectname-dev`), so that users can do something like this:

```
    easy_install --editable projectname==dev
```
Managing "Continuous Releases" Using Subversion

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```python
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development
revision number, but feel free to follow and use an "#egg=OtherProject-dev" link if you find one. This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ```setup.py develop``` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ```develop``` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ```setup.py develop``` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ```setup.cfg```, so that you don't end up registering versions like ```foobar-0.7a1.dev-r34832```. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ```setup.cfg``` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (```egg_info -RDb ""```) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ```setup.py```, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
--------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `.pyx` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in CVS or Subversion will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-----------------
Command Reference
-----------------

.. _alias:

``alias`` - Define shortcuts for commonly used commands

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``. where aliasname is the name of the new alias, and the remainder of
the command line supplies its expansion. For example, this command defines
a sitewide alias called "daily", that sets various `egg_info` tagging
options::

    setup.py alias --global-config daily egg_info --tag-svn-revision \
                 --tag-build=development

Once the alias is defined, it can then be used with other setup commands,
e.g.::

    setup.py daily bdist_egg    # generate a daily-build .egg file
    setup.py daily sdist        # generate a daily-build source distro
    setup.py daily sdist bdist_egg # generate both

The above commands are interpreted as if the word ``daily`` were replaced with
``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command
line. This serves two purposes. First, if you accidentally create an alias
loop, it will have no effect; you'll instead get an error message about an
unknown command. Second, it allows you to define an alias for a command, that
uses that command. For example, this (project-local) alias::

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the `bdist_egg` command so that it always runs the `rotate` command
afterwards to delete all but the newest egg file. It doesn't loop
indefinitely on `bdist_egg` because the alias is only expanded once when
used.

You can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

    setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The
default is to define or remove a project-specific alias, but you can use any of
the `configuration file options` (listed under the `saveopts` command, below)
to determine which distutils configuration file an aliases will be added to
(or removed from).

Note that if you omit the "expansion" argument to the `alias` command,
you'll get output showing that alias' current definition (and what
configuration file it's defined in). If you omit the alias name as well,
you'll get a listing of all current aliases along with their configuration
file locations.
`bdist_egg` - Create a Python Egg for the project

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

```
--dist-dir=DIR, -d DIR
```
Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

```
--plat-name=PLATFORM, -p PLATFORM
```
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

```
--exclude-source-files
```
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well
exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

```--keep-temp, -k``

Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

```--bdist-dir=DIR, -b DIR``

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

```--skip-build``

Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"

==========================================================================

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i`
command to ensure any C extensions in the project have been built and are up-to-date, and the "egg_info" command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the "develop" command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning "develop", but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the "develop" or "test" commands to keep the distribution updated.

Here are some of the options that the "develop" command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use "--exclude-scripts" (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the "develop" command, if you need finer control over the installation options for dependencies.

"--uninstall, -u"
Un-deploy the current project. You may use the "--install-dir" or "-d" option to designate the staging area. The created "egg-link" file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from "easy-install.pth" if the staging area is Python's "site-packages" directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the "--exclude-scripts" (aka "-x") option when you run "develop" to deploy the project.

"--multi-version, -m"
"Multi-version" mode. Specifying this option prevents "develop" from adding an "easy-install.pth" entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use "pkg_resources.require()" to put it on "sys.path", or you are running a wrapper script generated by "setuptools" or EasyInstall. (In which case the wrapper script calls "require()" for you.)

Note that if you install to a directory other than "site-packages", this option is automatically in effect, because "pth" files can only be used in "site-packages" (at least in Python 2.3 and 2.4). So, if you use the "--install-dir" or "-d" option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.
``--install-dir=DIR, -d DIR``
Set the installation directory (staging area). If this option is not
directly specified on the command line or in a distutils configuration
file, the distutils default installation location is used. Normally, this
will be the ``site-packages`` directory, but if you are using distutils
configuration files, setting things like ``prefix`` or ``install_lib``,
then those settings are taken into account when computing the default
staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option
(via the command line or a configuration file), but you *have* supplied
an ``--install-dir`` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find
their associated package installation. Otherwise, this setting defaults
to the location where the distutils would normally install scripts, taking
any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb
existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they
are already present in another directory on ``sys.path``. By default, if
a requirement can be met using a distribution that is already available in
a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated ``.egg-link`` file to use a specified relative path
to the source directory. This can be useful in circumstances where your
installation directory is being shared by code running under multiple
platforms (e.g. Mac and Windows) which have different absolute locations
for the code under development, but the same *relative* locations with
respect to the installation directory. If you use this option when
installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of
the same options accepted by ``easy_install``. If you've configured any
``easy_install`` settings in your ``setup.cfg`` (or other distutils config
files), the ``develop`` command will use them as defaults, unless you override
them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
============================================
This command runs the `EasyInstall tool <easy_install.html>`_ for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
=====================================================

This command performs two operations: it updates a project's `.`.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:
Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=none` as an argument to the `egg_info` command.

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form `-rNNNN` to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's

Open Source Used In Secure Workload 3.6.1.1 37428
For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

```
egg_info Examples
```

Creating a dated "nightly build" snapshot egg:

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`:

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

```
install command:
```

```
install` - Run `easy_install` or old-style installation
```

The setuptools `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

```
--single-version-externally-managed`
```
This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

``install_egg_info`` - Install an `.egg-info` directory in `site-packages`
==============================================================================

Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``
The parent directory where the `.egg-info` directory will be placed.
Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

``rotate`` - Delete outdated distribution files
==============================================================================

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
Comma-separated list of glob patterns to match. This option is *required*. The project name and `*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you...
have a shared distribution directory for multiple projects). Typically,
you will use a glob pattern like ``.zip`` or ``.egg`` to match files of
the specified type. Note that each supplied pattern is treated as a
distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files
identified by a pattern specified with the ``--match`` option, delete all
but the COUNT most-recently-modified files in that group. This option is
*required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the
``bdist`` command's ``--dist-dir`` option, which will usually be the
project's ``dist`` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except
for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution
directory, except the most recently modified one for each Python version::

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:
``saveopts`` - Save used options to a configuration file

--------------------------------------------------------

Finding and editing ``distutils`` configuration files can be a pain, especially
since you also have to translate the configuration options from command-line
form to the proper configuration file format. You can avoid these hassles by
using the ``saveopts`` command. Just add it to the command line to save the
options you used. For example, this command builds the project using
the ``mingw32`` C compiler, then saves the --compiler setting as the default
for future builds (even those run implicitly by the ``install`` command)::

    setup.py build --compiler=mingw32 saveopts

The ``saveopts`` command saves all options for every command specified on the
command line to the project's local ``setup.cfg`` file, unless you use one of
the `configuration file options` to change where the options are saved. For
example, this command does the same as above, but saves the compiler setting
to the site-wide (global) distutils configuration::
setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

Configuration File Options
--------------------------

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `--user` or `--filename`.

``--user-config, -u``
Save settings to the current user's `~/.pydistutils.cfg` (POSIX) or `$HOME/pydistutils.cfg` (Windows) file. You can't combine this option with `--global` or `--filename`.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with `--global` or `--user`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:
``setopt`` - Set a distutils or setuptools option in a config file

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.
**Example 1**. Set the default C compiler to `mingw32` (using long option names):

    setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

    setup.py setopt -c install -o install_lib -r

Options for the `setopt` command:

```
``--command=COMMAND, -c COMMAND``

Command to set the option for. This option is required.

```
``--option=OPTION, -o OPTION``

The name of the option to set. This option is required.

```
``--set-value=VALUE, -s VALUE``

The value to set the option to. Not needed if ``-r`` or ``--remove`` is set.

```
``--remove, -r``

Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_ (listed under the `saveopts`_ command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

    ``test`` - Build package and run a unittest suite

=============================================

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module...
or package containing `''TestCase`` classes. If the named suite is a module, and the module has an `''additional_tests()`` function, it is called and the result (which must be a `''unittest.TestSuite``) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `''test_loader```, the rules for processing the chosen `''test_suite`` may differ; see the `''test_loader`` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `''unittest`` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `''-q`` or `''--quiet`` option, either as a global option to the setup script (e.g. `''setup.py -q test``) or as an option for the `''test`` command itself (e.g. `''setup.py test -q``). There is one other option available:

`''--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run (e.g. `''some_module.test_suite``). The default for this option can be set by giving a `''test_suite`` argument to the `''setup()`` function, e.g.::

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a `''test_suite`` in your `''setup()`` call, and do not provide a `''--test-suite`` option, an error will occur.

```bash
.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI

==================================================================

PyPI now supports uploading project files for redistribution; uploaded files are easily found by EasyInstall, even if you don't have download links on your project's home page.

Although Python 2.5 will support uploading all types of distributions to PyPI, setuptools only supports source distributions and eggs. (This is partly because PyPI's upload support is currently broken for various other file types.) To upload files, you must include the `''upload`` command *after* the
``sdist`` or ``bdist_egg`` commands on the setup command line. For example::

```bash
setup.py bdist_egg upload       # create an egg and upload it
setup.py sdist upload          # create a source distro and upload it
setup.py sdist bdist_egg upload # create and upload both
```

Note that to upload files for a project, the corresponding version must already be registered with PyPI, using the distutils ``register`` command. It's usually a good idea to include the ``register`` command at the start of the command line, so that any registration problems can be found and fixed before building and uploading the distributions, e.g.::

```bash
setup.py register sdist bdist_egg upload
```

This will update PyPI's listing for your project's current version.

Note, by the way, that the metadata in your ``setup()`` call determines what will be listed in PyPI for your package. Try to fill out as much of it as possible, as it will save you a lot of trouble manually adding and updating your PyPI listings. Just put it in ``setup.py`` and use the ``register`` command to keep PyPI up to date.

The ``upload`` command has a few options worth noting:

````--sign, -s````

Sign each uploaded file using GPG (GNU Privacy Guard). The ``gpg`` program must be available for execution on the system ``PATH``.

````--identity=NAME, -i NAME````

Specify the identity or key name for GPG to use when signing. The value of this option will be passed through the ``--local-user`` option of the ``gpg`` program.

````--show-response````

Display the full response text from server; this is useful for debugging PyPI problems.

````--repository=URL, -r URL````

The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

````_upload_docs````

````upload_docs```` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.
The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.:

```
Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | |-- html
 | | | |-- index.html
 | | | | `-- tips_tricks.html
 | | |-- conf.py
 | |-- index.txt
 | `-- tips_tricks.txt
```

You can simply pass the documentation directory path to the `upload_docs` command:

```
python setup.py upload_docs --upload-dir=docs/build/html
```

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```
.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

```
--upload-dir```

The directory to be uploaded to the repository.

```
--show-response```

Display the full response text from server; this is useful for debugging PyPI problems.

```
--repository=URL, -r URL
```
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

--------------------------------
Extending and Reusing Setuptools
--------------------------------

Creating ``distutils`` Extensions
=================================

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins` above for some more background on entry points.)

Adding Commands
---------------

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`,
Adding `setup()` Arguments

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `"bar_baz"`, you might add something like this to your distutils extension project’s setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it’s supplied. The `Distribution` object will have the initial value of the attribute set to `"None"`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here’s an example validation function:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError("%r must be a boolean value (got %r)" % (attr, value))
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be "None" when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument:

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    ),
)
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to
a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. ``foo_bar.txt``), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ``dry_run`` setting when writing files, and use the ``distutils.log`` object to do any console output. The easiest way to conform to this requirement is to use the command object's ``write_file()``, ``delete_file()``, and ``write_or_delete_file()`` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Other Revision Control Systems
--------------------------------------------------

If you would like to create a plugin for ``setuptools`` to find files in other source control systems besides CVS and Subversion, you can do so by adding an entry point to the ``setuptools.file_finders`` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```
.. code-block:: python

    def find_files_for_foobar(dirname):
        # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this::

```
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```
Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `some/dir` under the current directory should NOT be rendered as `./some/dir` or `/somewhere/some/dir`, but *always* as simply `some/dir`

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use `distutils.log.warn()` to inform the user of the missing program(s).

Subclassing `Command`

-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below this point, except for the change log. You might want to subscribe to changes in this page <setuptools?action=subscribe> to see when new documentation is added or updated.

XXX

Reusing `setuptools` Code

================================

`ez_setup`

----------

XXX
Mailing List and Bug Tracker

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://bitbucket.org/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/docs/setuptools.txt

1.3266 numactl 2.0.9 6.el7_2
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
nodemanager/src/main/resources/TERMINAL

=======
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.3271 python-urlgrabber 3.10 7.el7

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THE BASIC LIBRARY FUNCTIONS

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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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1.3281 bash 4.1.2 48.el6
1.3281.1 Available under license:

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu\'chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 1995 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
``The lyf so short, the craft so long to lerne.'' - Chaucer

Chet Ramey, Case Western Reserve UniversityInternet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-1ns)
    id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
    id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
    id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.INS.CWRU.Edu> Thu, 25 May 95 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

> Hi. I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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45. [49] Wilfredo S"nchez <wsanchez@apple.com> added support for NetInfo

46. [50] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port

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50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

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52. [56] Kenneth Stone <ken@sdd.hp.com> HP-UX port

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